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RADC-TR-76-186, Vol II, Pt 2 Final Technical Report June 1976



ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING (Computer Program Flow Charts)

General Dynamics



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Laboratory Directors' Fund Number 01707310 with Proj. 6512 funds added.

ROME AIR DEVELOPMENT CENTER AIR FORCE SYSTEMS COMMAND GRIFFISS AIR FORCE BASE, NEW YORK 13441 This report has been reviewed by the RADC Information Office (OI) and is releasable to the National Technical Information Service (NTIS). At NTIS it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

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REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
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This report contains a large percentage of machine-produced copy which is not of the highest printing quality but because of economical consideration, it was determined in the best interest of the government that they be used in this publication.

This report contains Vol I, Pt 1 (Sections 1-7 and 9-10) (Pages 1-1 thru 1-5, 2-1 thru 2-24, 3-1 thru 3-35, 4-1 thru 4-23, 5-1 thru 5-6, 6-1 thru 6-39, 7-1 thru 7-30, 9-1 thru 9-3 and 10-1 thru 10-2).

Vol I, Pt 2 contains Section 8 (Pages 8-1 thru 8-174).

Vol I, Pt 3 contains Section 8 (Pages 8-175 thru 8-418).

Vol II, Pt 1 contains(Sections 1-8 and 10 & 11) (Pages 1-1, 2-1 thru 2-24, 3-1 thru 3-15, 4-1 thru 4-137, 5-1 thru 5-16, 6-1 thru 6-44, 7-1, 8-1 thru 8-26, 10-1 thru 10-4 and 11-1 thru 11-2).

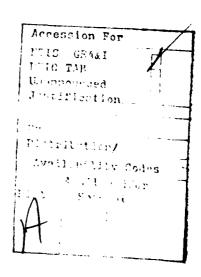
Vol II, Pt 2 contains Sections 9 and 10 (Pages 9-1 thru 9-234 and Pages 10-1 thru 10-4).

Vol III contains Sections 1 thru 6 (Pages 1-1 thru 1-2, 2-1 thru 2-22, 3-1 thru 3-53, 4-1 thru 4-141, 5-1 thru 5-3 and 6-1).

Vol IV, Pt 1 contains Appendices A-K and Appendix M.

Vol IV, Pt 2 contains Appendix L.

This software has been updated & changes
are being made under existing RADC contracts



SECTION		TITLE	PAGE
9	RADSIM COMPUTER	PROGRAM	9-1
	9.1 Flow Charts 9.2 Cross Refe	s rence Tables	9-2 9-206
10	INDEX		10-1
PROGRAM/ SUBROUTI FUNCTION	NE/	FLOW CHART <u>PAGE</u>	CROSS REFS. <u>PAGE</u>
MAIN 1 -	INITIALIZER LOAD MODULE	9-2	9-206
MAIN 2 -	SIMULATIONS LOAD MODULE	9-34	9-210
FILT WEITRE CONV SHIFT CFAR LAMPCF ERGYCP FGENXY PHDEC ABORT PTLIST PACK PLOTTR DCFAR DIGTFL DCIGFL INGTOR ATOD RDIGFIL HET		9-55 9-57 9-60 9-63 9-66 9-68 9-70 9-72 9-78 9-81 9-82 9-88 9-90 9-93 9-95 9-95 9-96 9-97 9-98 9-100 9-101 9-103	9-215 9-215 9-216 9-216 9-217 9-217 9-217 9-218 9-218 9-218 9-219 9-220 9-220 9-220 9-220 9-221 9-221
ECM DIGFSF TARGET CLUTTR WVGUID		9-103 9-104 9-107 9-109 9-112 9-116	9-221 9-221 9-222 9-222 9-223

PROGRAM/	FLOW	CROSS
SUBROUTINE/	CHART	REFS.
FUNCTION	PAGE	PAGE
IONOS	9-117	9-223
IPACK	9-118	9-223
IBOOL	9-119	9-223
RRAND	9-120	9-223
DBLKX	9-122	9-223
IFLD	9-123	9-224
BLOCK DATA	9-124	9-224
ZFFT	9-125	9-224
NONLIN	9-135	9-225
HWDET	9-137	9-225
ANTINT	9-140	9-226
DFT	9-142	9-226
RECF	9-145	9-227
PXFRM	9-147	9-227
CGENSF	9÷149	9-227
RNDARY	9-150	9-227
CUMDIS	9-152	9-228
RTOPDB	9-156	9-228
AZGAIN	9-159	9-229
ELGAIN	9-160	9-229
SCANNR	9-161	9-229
SPCAVG	9-165	9-229
PHENC	9-167	9-229
ANTARY	9-170	9-230
PLTFMT	9-175	9-231
TSRPAT	9-178	9-231
CGEN	9-182	9-231
TSARY	9-186	9-232
CLINT	9-198	9-234
MTIFLT	9-201	9-234
SWPINT	9-204	9-234

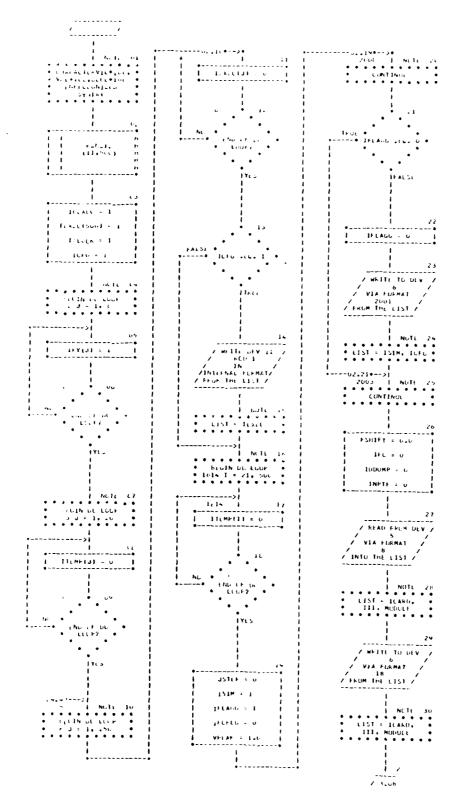
SECTION 9

RADSIM COMPUTER PROGRAM

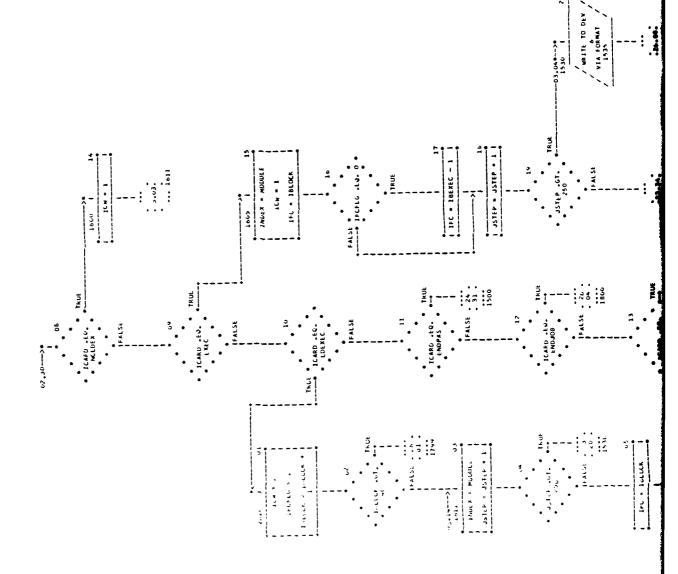
FLOW CHARTS

This section includes the flow charts and cross references tables for all the modules of the radar simulation model.

Note that the page numbers referred to in the flow charts at various entry and exit points are those page numbers located in the upper right hand corner. These page numbers along with the box numbers are also referred to in the cross reference tables.



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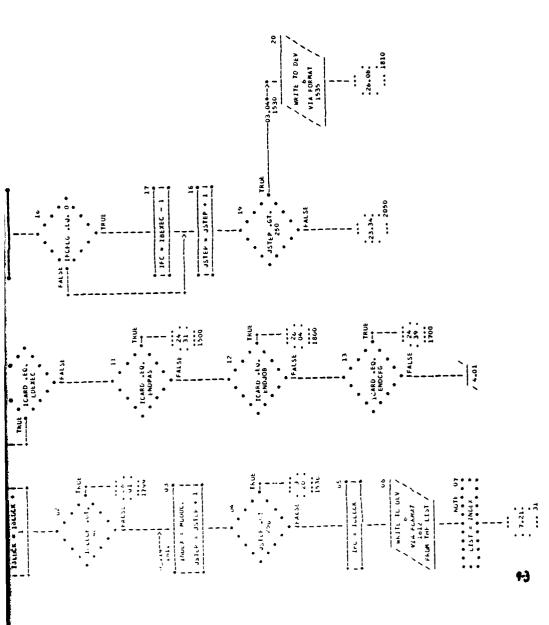


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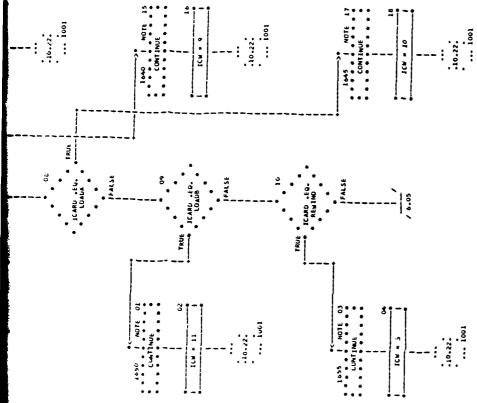
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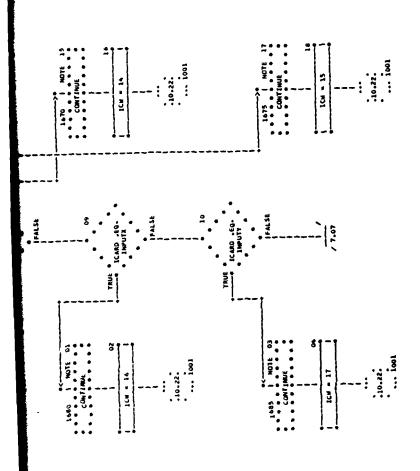
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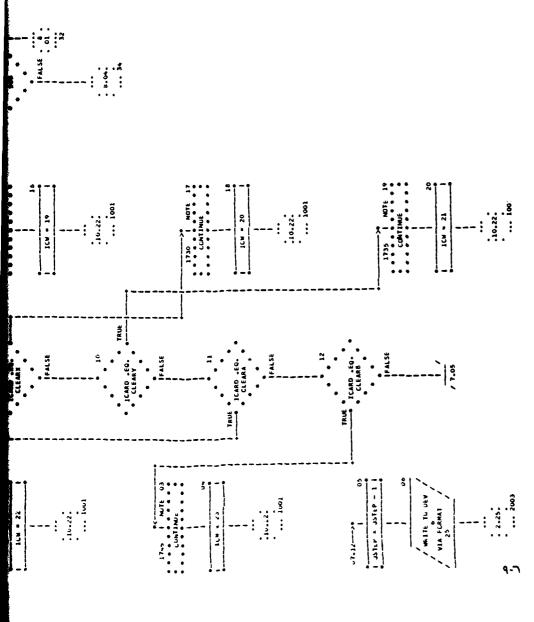
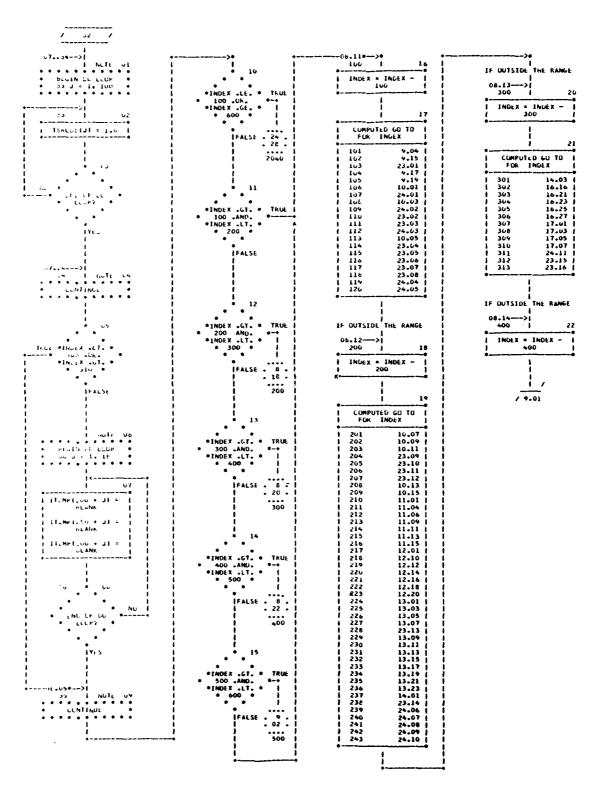


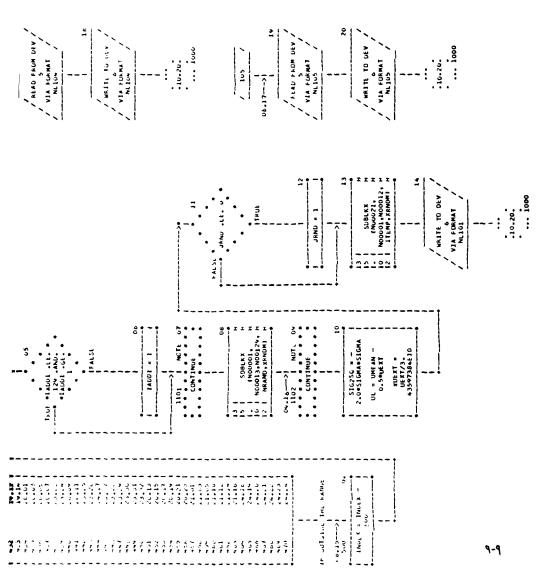
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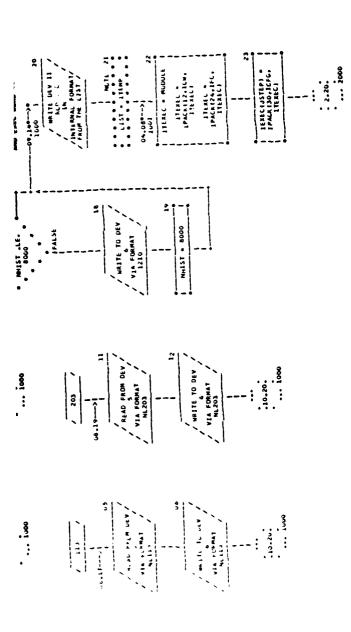
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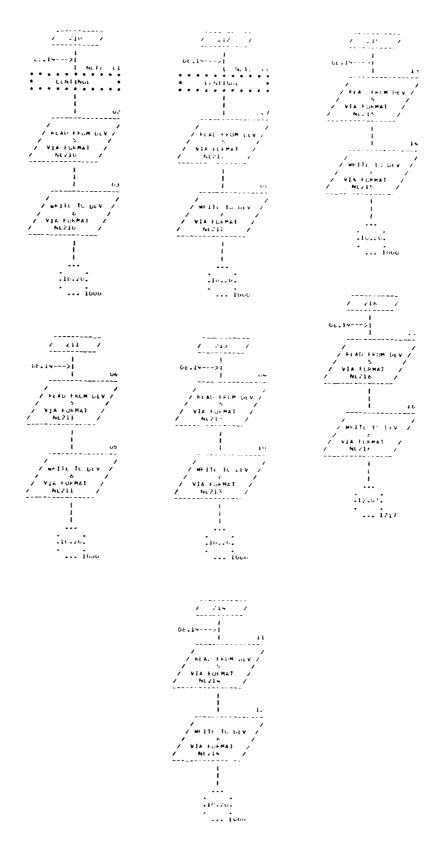


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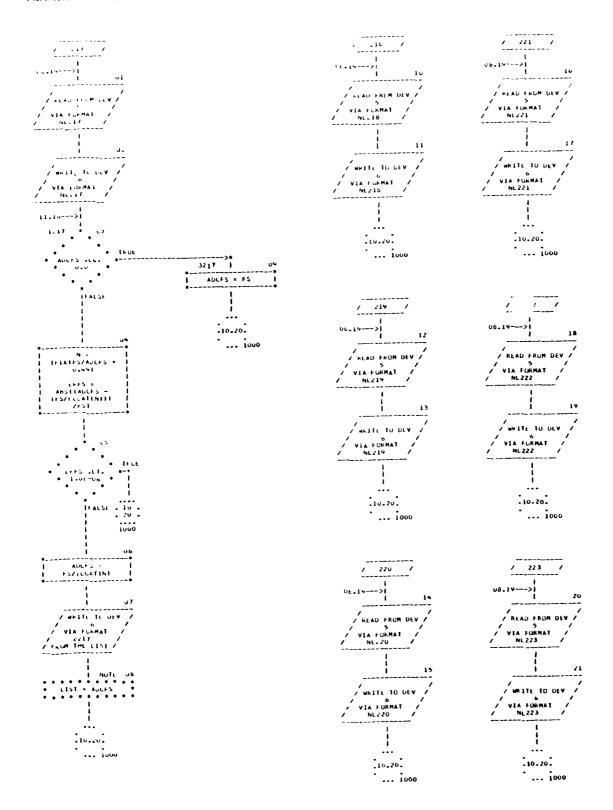
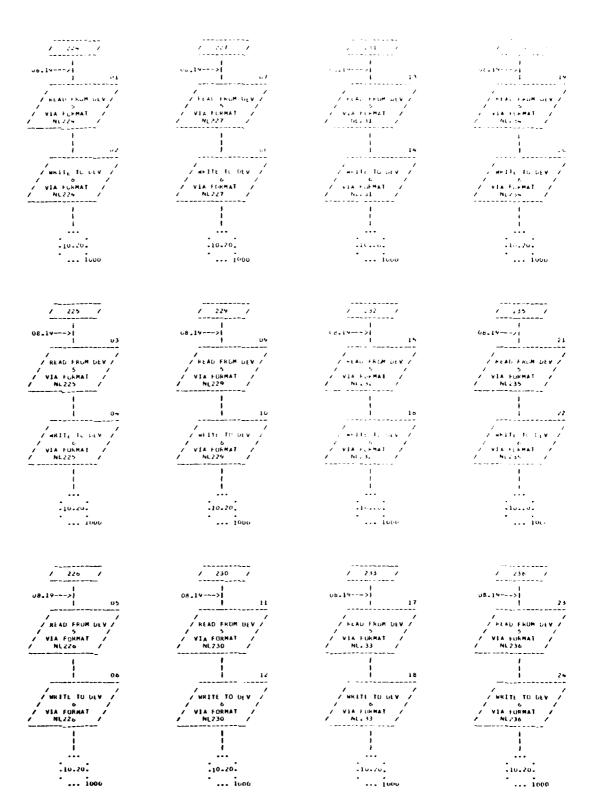
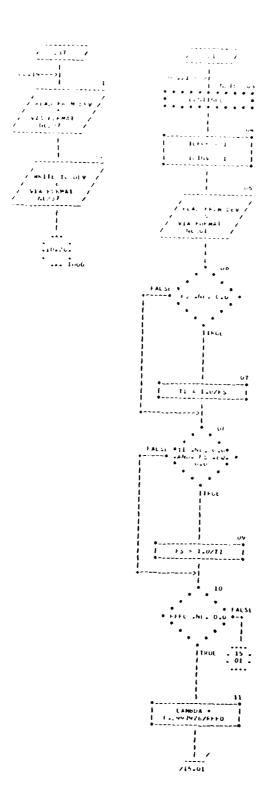


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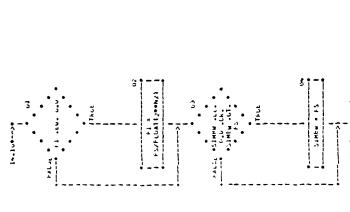


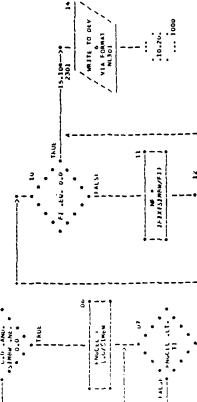
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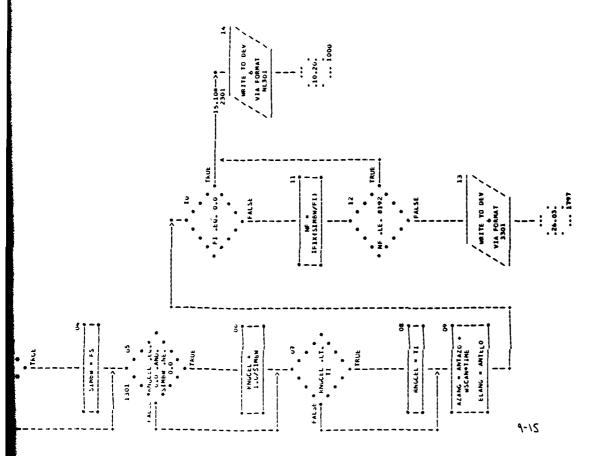
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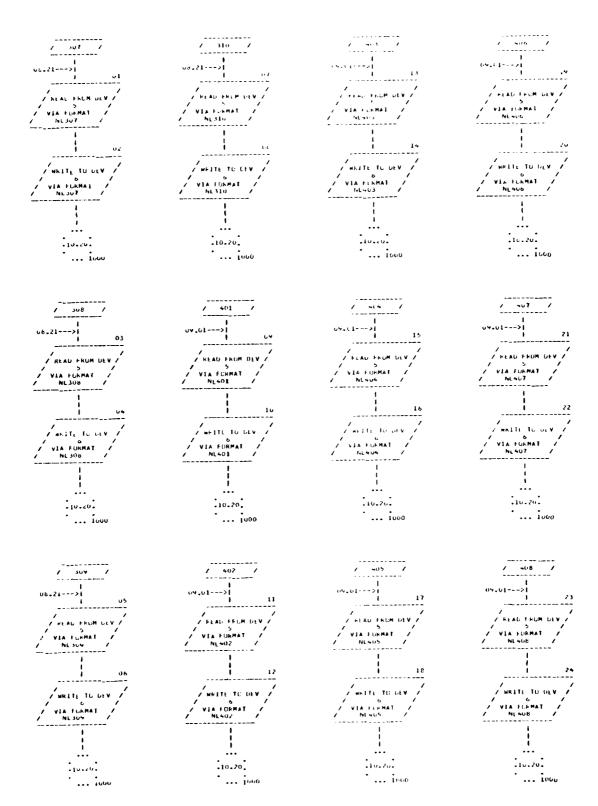


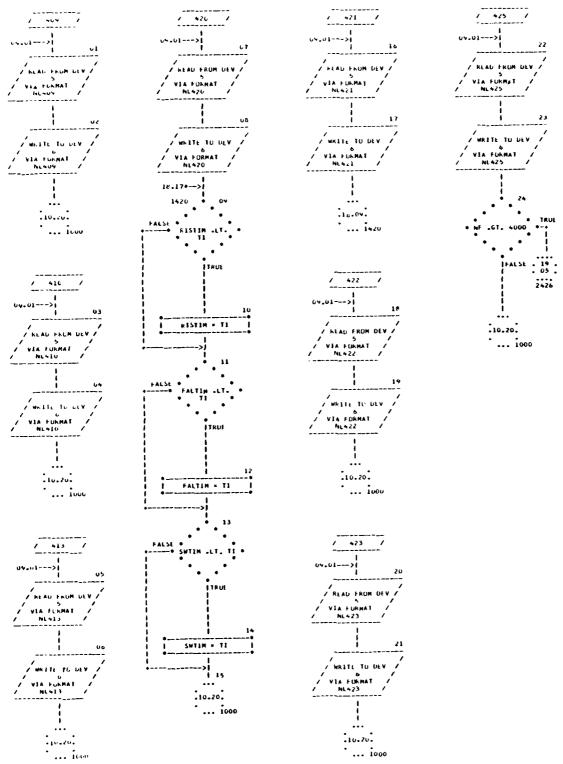


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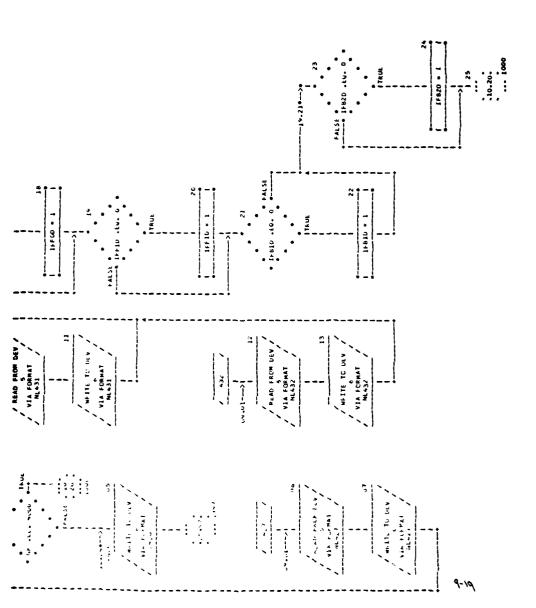
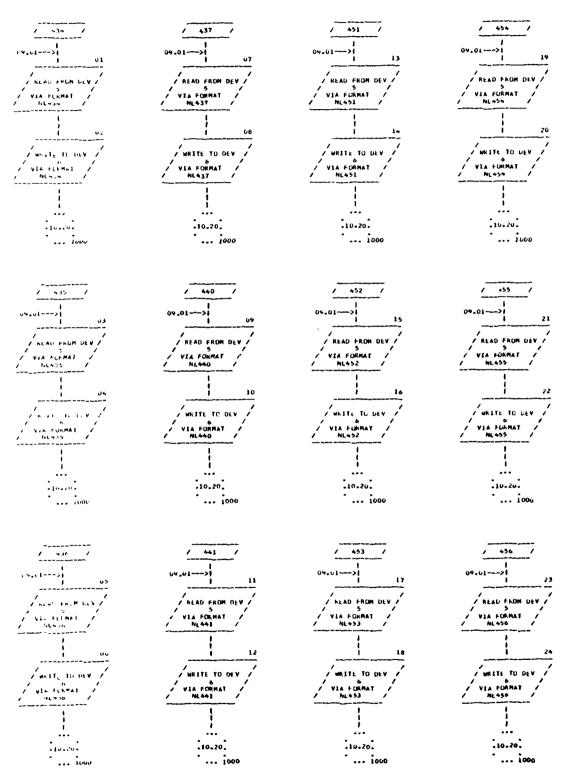
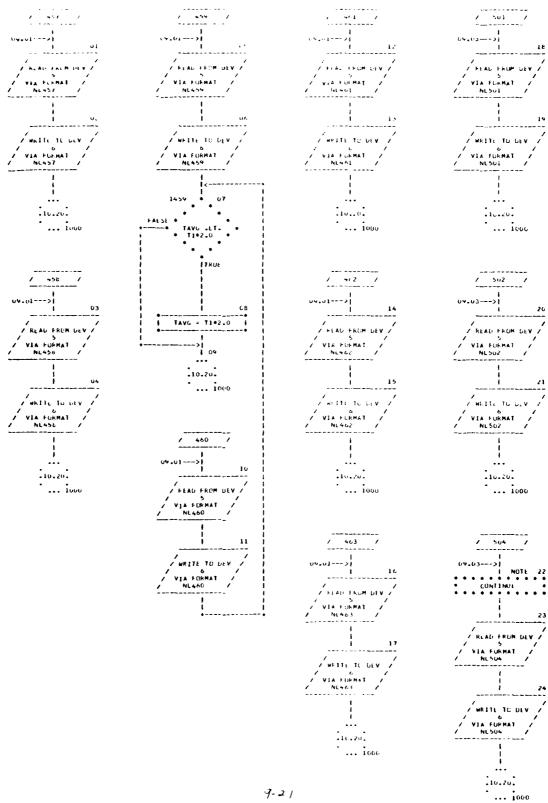
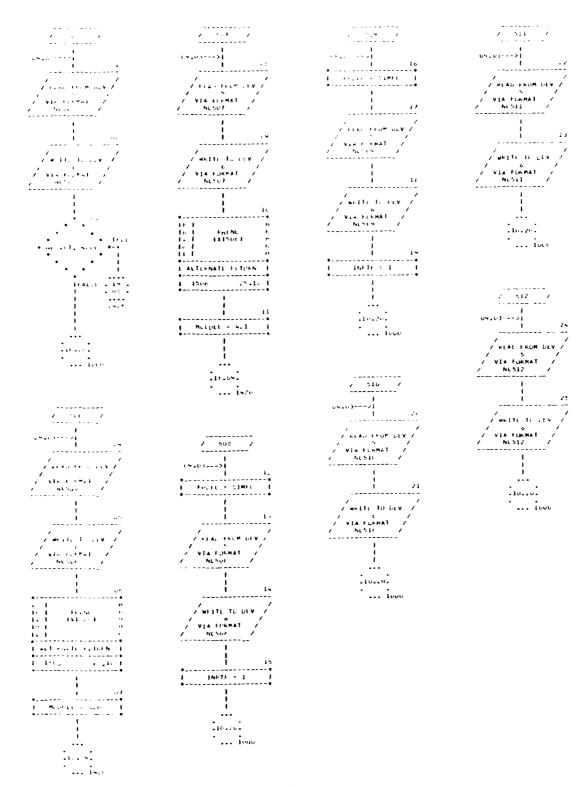


CHART TITLE - PRUCEDURES



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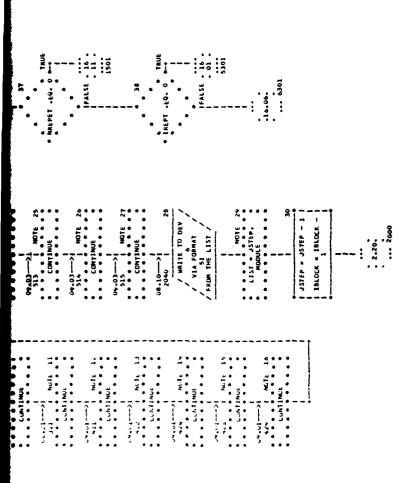


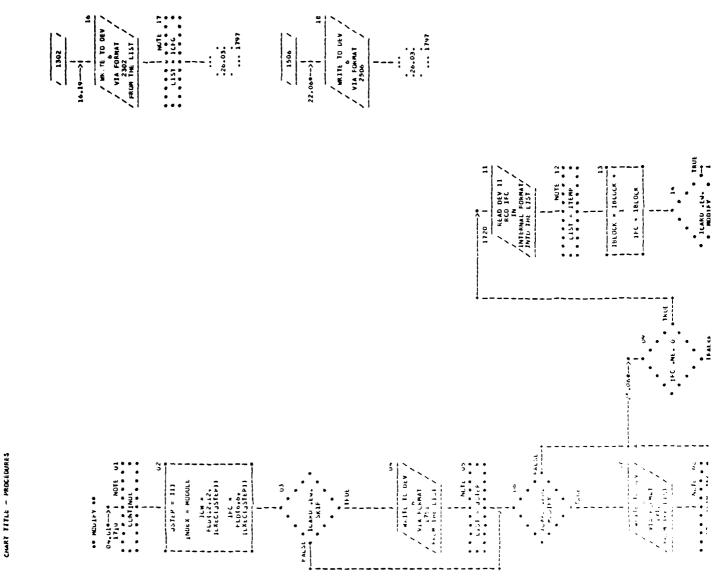
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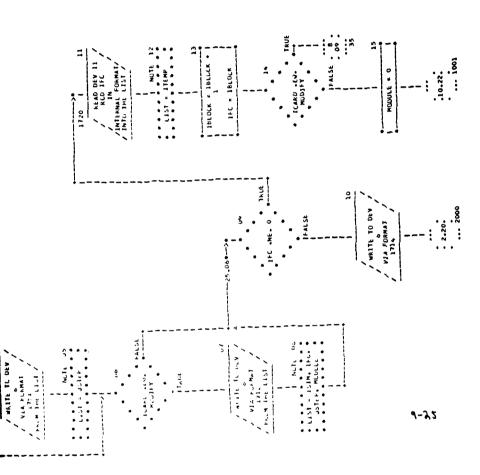
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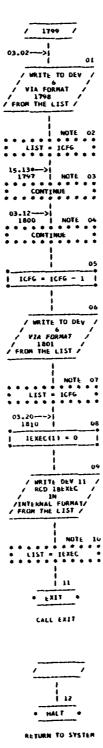




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CHART TITLE - PROCEDURES



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CHART TITLE - NON-PHOLESCHAL STATEMENTS

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CHART IITLE - NON-FROCEDURAL STATEMENTS

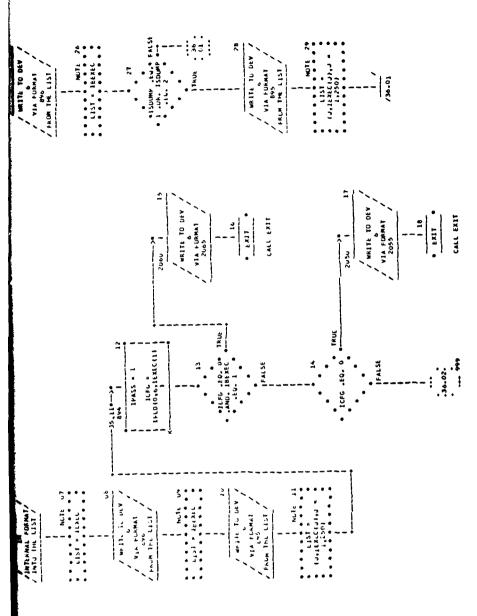
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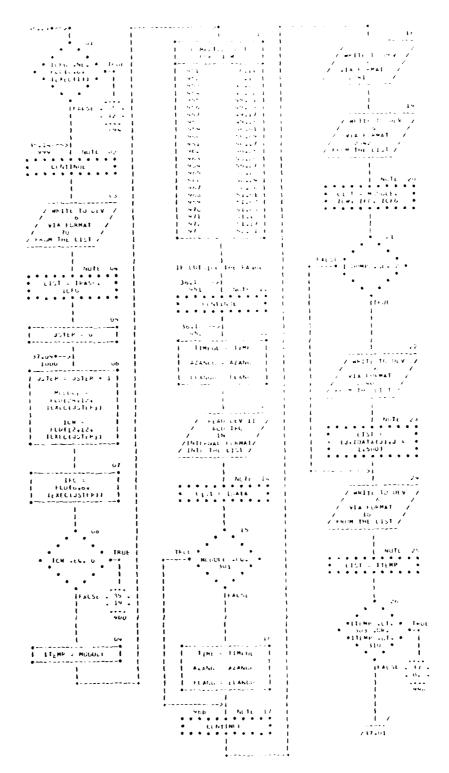
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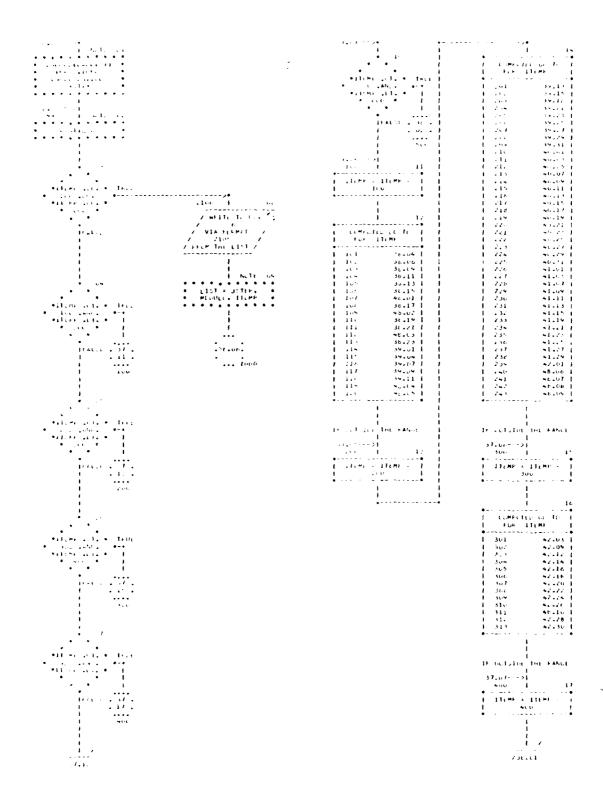


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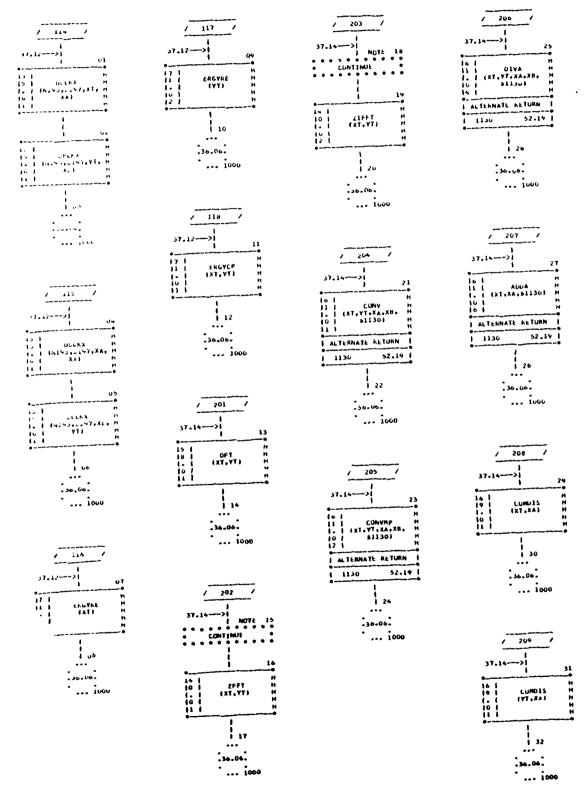
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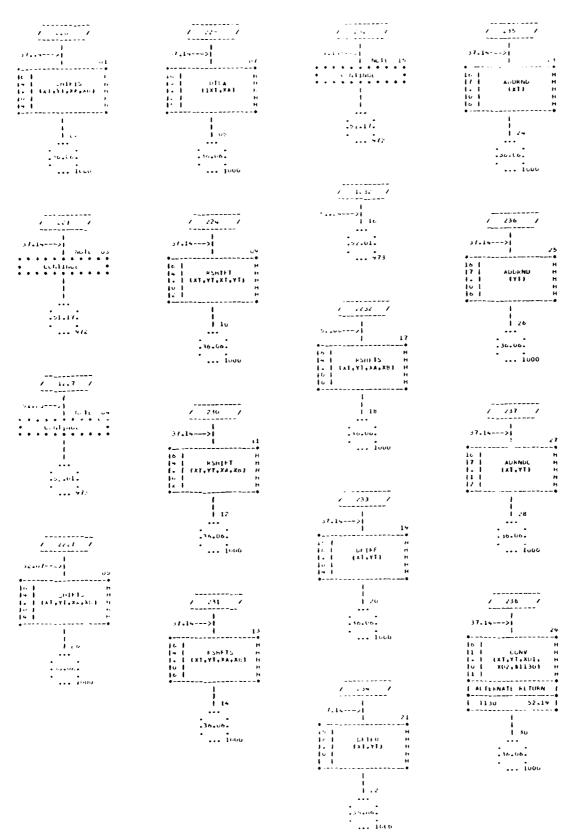
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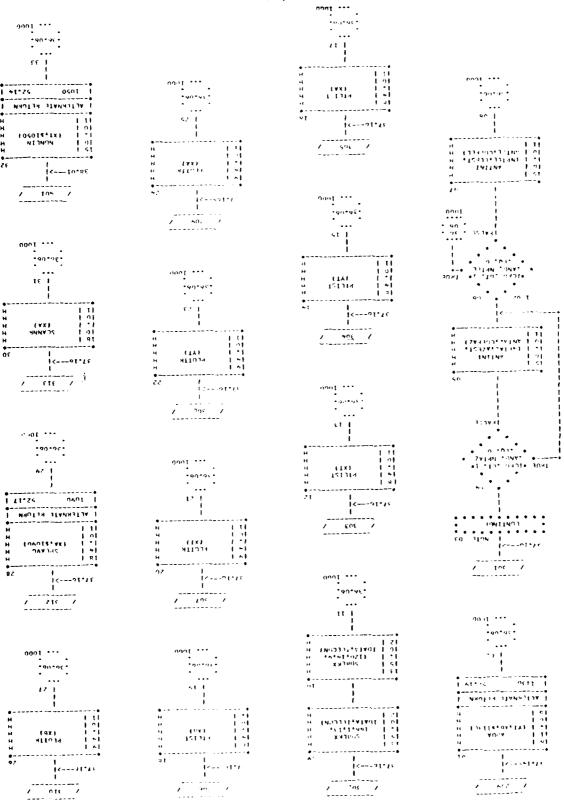
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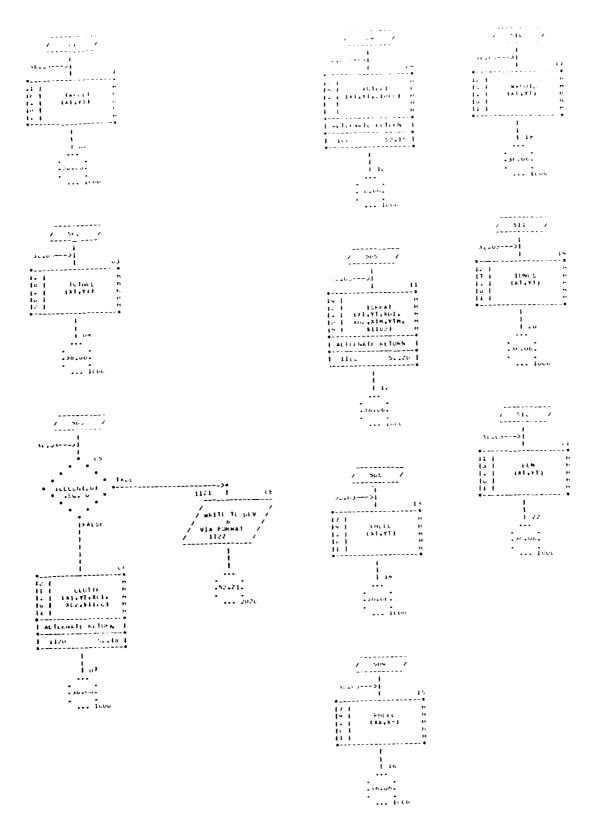
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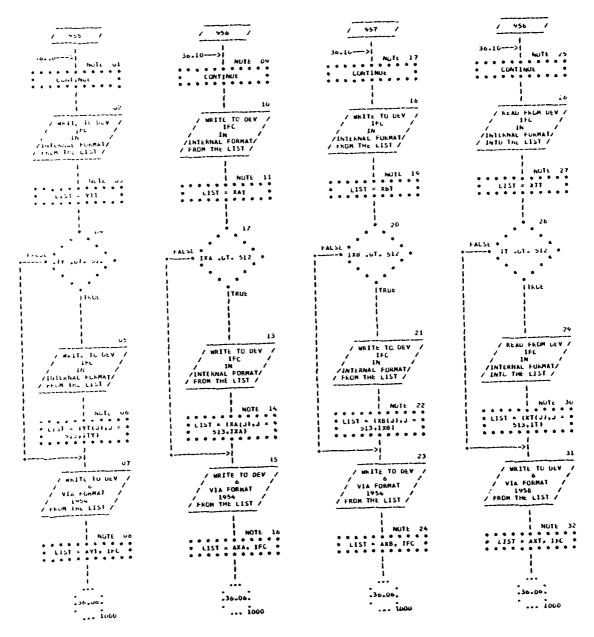
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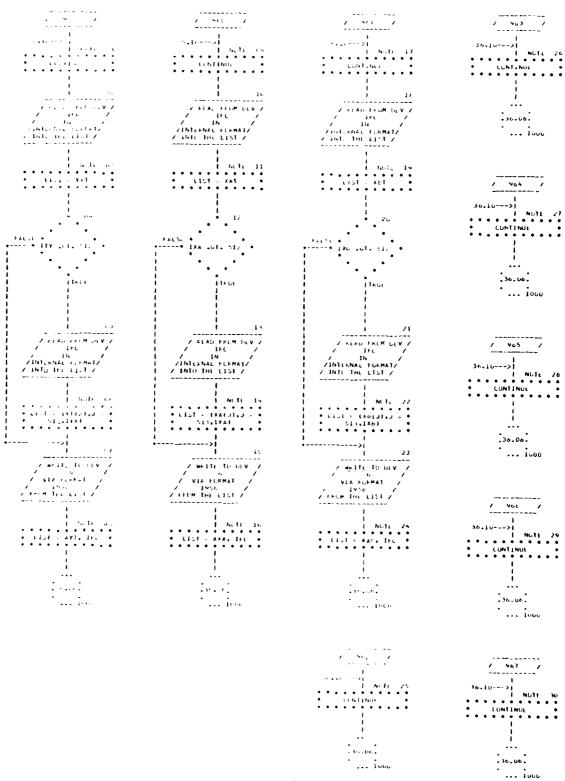
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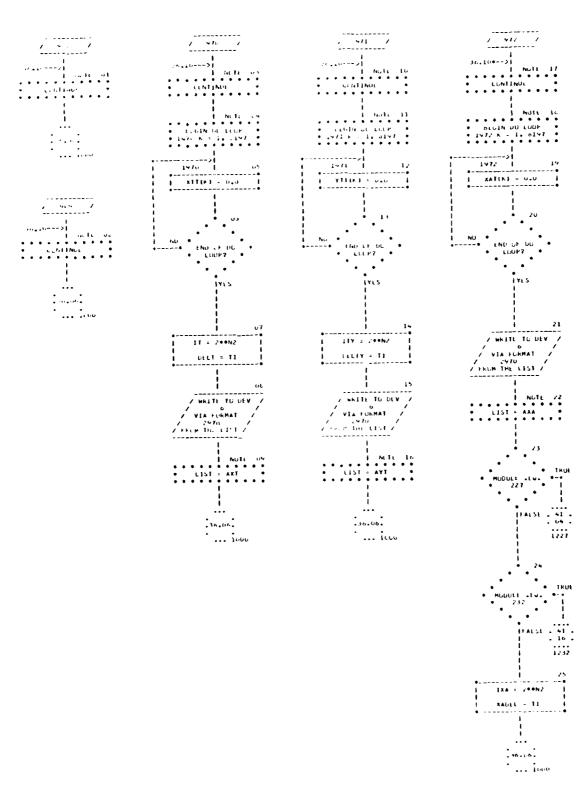
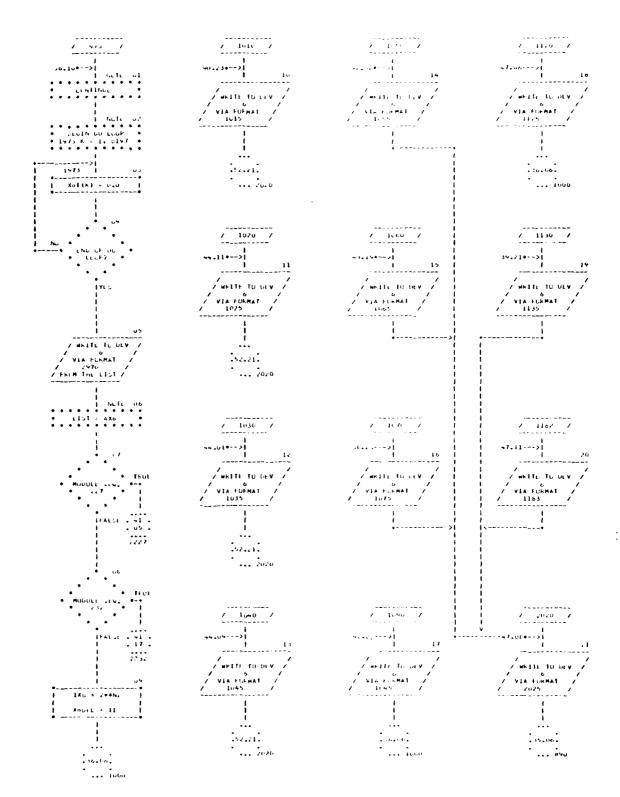


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CMART TITLE - SUBROUTINE FILTIX,Y)

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AUTOFLOW CHART SET - FWG/SCL RADSIM

CHAKI TITLE - NON-PRUCEDUKAL STATEMENTS

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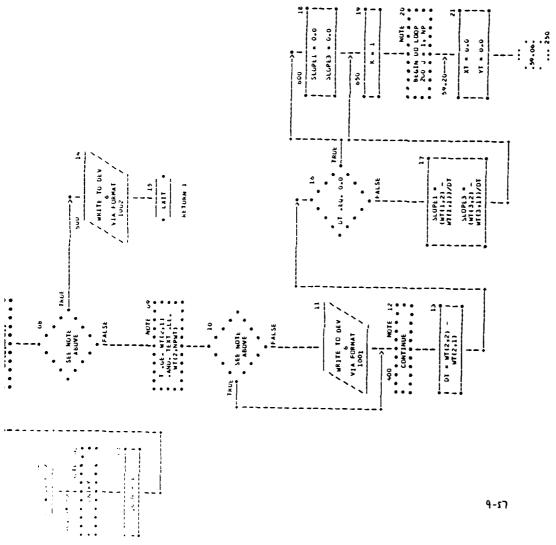
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CMART TITLE - SUBMOUTINE WEITHERS, Y. O.

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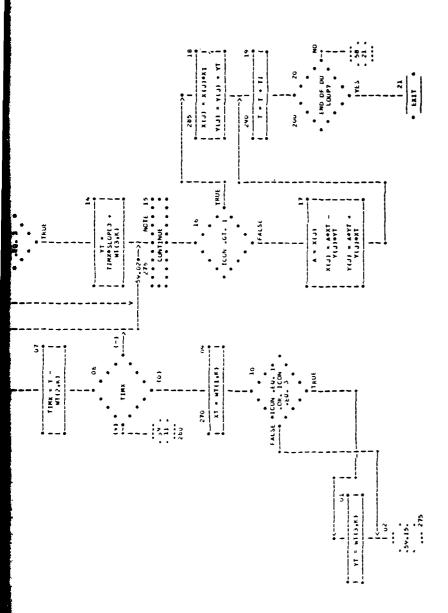


CHART TITLE - NON-PRUCEDURAL STATEMENTS

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See. 110

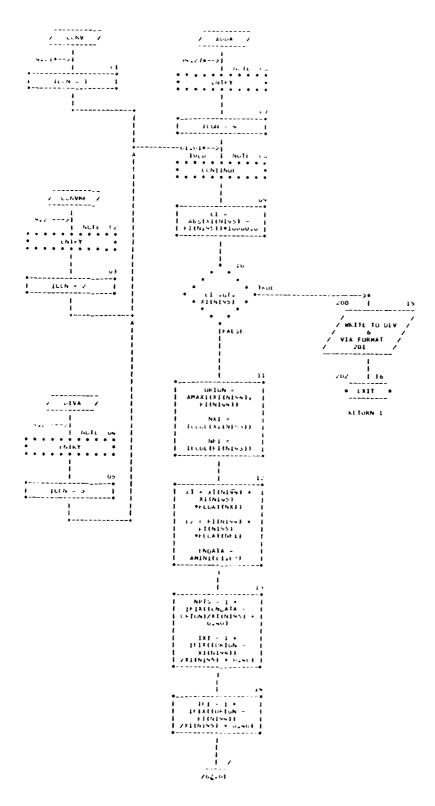
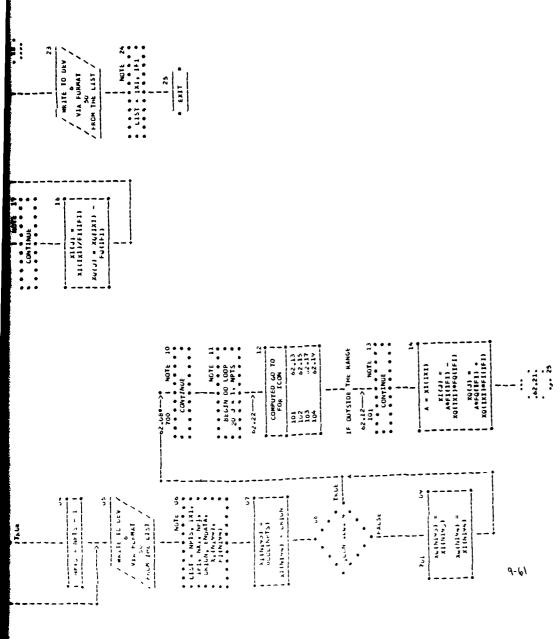


CHART TITLE - SUBROUTINE CONVIXI, XQ.FI; FQ.+)

20 22 20 22 21 23 23 24 24 25 26 25 27 25 28 26 29 27 20	62 183 · 183 · 183
NOTE LE LE LE LE LE LE LE	
\-\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	700 MOTE 10 CONTINUE BELLIN DO LOOP 20 J 1, MPTS CATASTON COMPUTED CD 10 FOR 103 02.13 1 104 02.13 1 105 02.14 1 106 02.17 1
FALSE - 144 - NP15 - 1 1 1 1 1 1 1 1 1 1	LUST - NOTE - ON THE ON



UE/11/75 CHART TITLE - NGN-PROCEDURAL STATEMENTS DIMENSION XI(1), XG(1), FI(1), FQ(1)

DATA N193,N194,N195,N196/-3,-2,-1,0/

50 FURMAT(1H ,5112,4E14.6)

FORMATI 'INDEPENDENT VARIABLE INCREMENTS DU NOT MATCH ') 201

AUTOFLOW CHART SET - FWD/SCL RADSIN

CHART TITLE - SUBROUTINE SHIFT(X.Y.A.B)

					30 NOTE 17	MOTE 14 8 ELIN DO LGOP 300 L = 1, NPTS2	11000000000000000000000000000000000000	20 3M = SMPACOLL + TEMPASOLL + K + K + NOLL
		20 14 	ACDEL = 1.0 ASDEL = 0.0 CS = CGS(THT) SN = SIM(THT)	15 NPTSZ = NPTS 1PASS = 2 K = 1	25 16 16 16 16 16 16 16 16 16 16 16 16 16		;	
101	08 NPTS = 1 18 col. (XM1931) 1 18 col. (XM1931) 1 1 1 1 1 1 1 1 1	TRUE TOR .EG. 0.0	FALSE 10	19ASS = 1 K = NPTS2 = 1 K = NPTS2 = 1 THT = THT/360.0	SIMFORTOR - THT DELPH = -	AINT(PH) 19917 OLED S. (OLE PH - AINT(DELPH) 19912 ACOEL S. (OS (OELPS) ASOEL " ASOEL "	(Salves + 8)	
, 141H2 /	10 0 = 403° 1	4~		· 5 · 1 · 1		4).010-07	2 2	100 HOTE OF

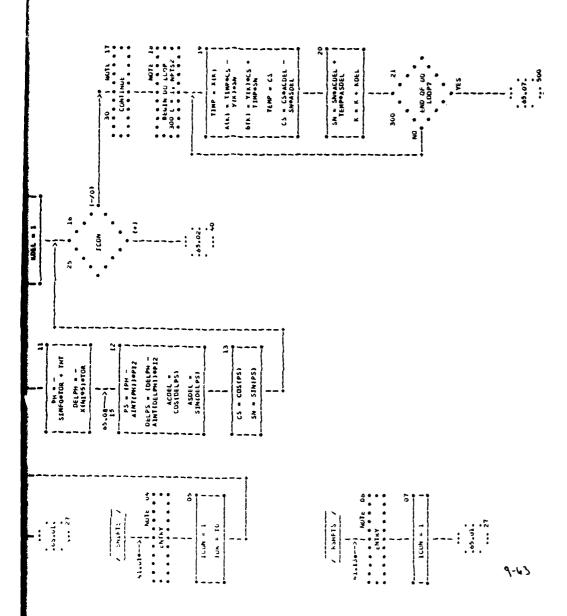
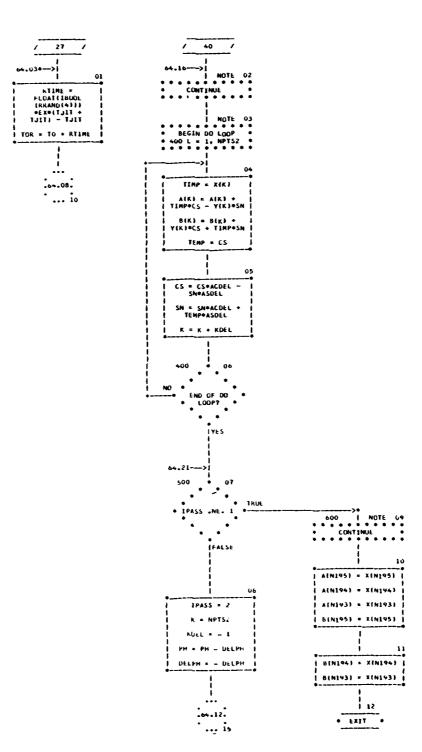


CHART TITLE - SUBROUTINE SHIFT(X.Y.A.B)



9-64

AUTOFLOW CHART SET - FWO/SCL RADSIM

25/11/75

CHART TITLE - NON-FROCEDURAL STATEMENTS

CUMMCN/BLK1/ BK1(200)

EQUIVALENCE (BK1(180),TC),(BK1(181),THT),(BK1(182),TJIT)

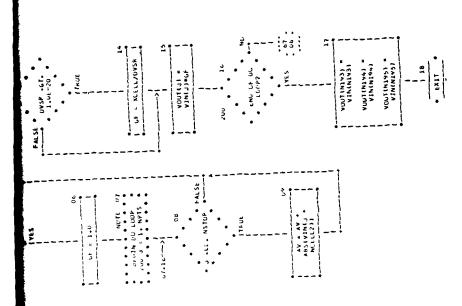
, (BK1(E), SIMFO)

DIMENSION X(1),Y(1),A(1),B(1)

UATA N193,N194,N195,N196/-3,-2,-1,U/

UATA PI2, EX/6.2831853,2.9103830E-11/

	FALSE . 10	AV AV AV ABSVANO - NCELLIII - 12 DVSR AV - 12 DVSR AV - 13 FALSI DVSP - G1 - 13	1	NO 1 NO
CFAR 01	AV = 0.0 AV = 0.0 AV = 0.0 BELLI PUCELZ = 1 AV = 0.0 BELLI PUCELZ = 1 AV = 0.0	ABS(VIN(J1)) ABS(VIN(J1)) LOG COS LOG TUDDP2 FYES	00 10 1 10 1 NUTE 07 10 10 1 10 10 10 10 10 10 10 10 10 10 10	10 to



GENERAL DYNAMICS FORT WORTH TEX CONVAIR AEROSPACE DIV F/G 17/9 ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING, VOLUME II. PAR--ETC(U) JUN 76 R J HANCOCK, F H CLEVELAND RADC-TR-76-186-VOL-2-PT-2 NL AD-A102 783 UNCLASSIFIED 2 01

AUTOFLUM CHART SET - FWL/SCL RAUSIM

LEAKT TITLE - NUN-FRUCEDURAL STATEMENTS

9-67

ELUIVALENCE (BK1(196), TAVG)

DIMENSION VIN(1), VOUT(1)

CUMMUN/BLKI/ BK1(200)

UATA N193,N194,N195/-3,-2,-1/

CAAKT 111LE - SUBROUTINE LAMPCP(KIN,VIN,KOUT,VOUT)

| MDTE 05 | MDT 00 | BEGIN DU LOOP | 260 J = 17 NPTS | 6 46.174-->| | MOTE 02 | ENTRY | | NPTS = | NPTS XIN())+CAIN / LAMPRE / MODE = 0 100 / LAMPCP / 1 MODE 1 -----

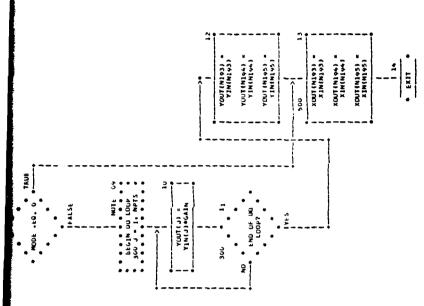
FALSE

| MUTE 69 | MUTE

YOUTEJE ..

YOUTINISS =

YDUTINIQ4) = YIN(N) 94) YDUT(N) 95) = YIN(N) 95)



02/11/12

CHANT TITLE - NUN-FRUCEDURAL STATEMENTS

DIMENSION XIN(1), YIN(1), XUUT(1), YOUT(1)

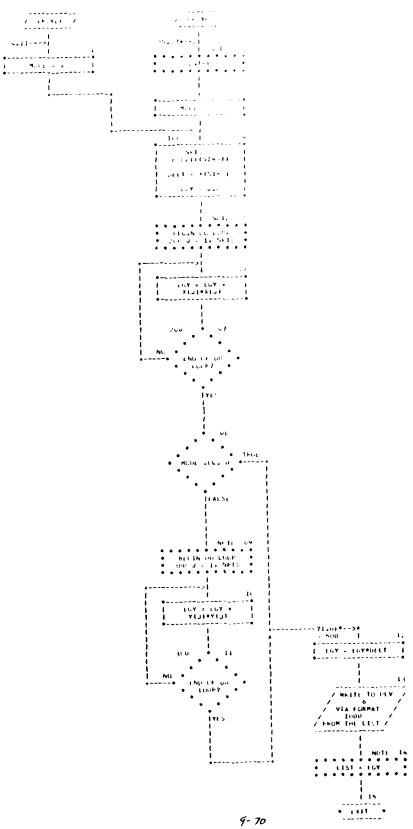
CUMMCN/BLK1/ 812001

UAIA N193,N104,N195/-3,-2,-1/

EGUIVALENCE (B(145) , GAIN)

The second secon

9-69



9-70

ce/.i/75

LHANT LITEL - RUN-PROCELLRAL STATLMENTS

UIMENSION X(1),Y(1)

UATA N193,N194,N195/-5,-2,-1/

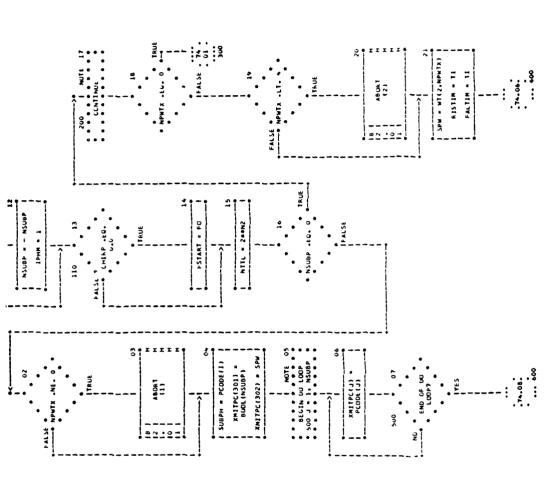
FUKMAT(" ENERGY IN THE WAVEFLIKM =", E15.5" WATT-NANUSECUNDS " 1000

FALSE . 44.030—)|
MOTE OB
NOTE NSUBP = - NSUBP FSTART # FO 1 NTIL = 200N2 I ITYPE . 2 TRUE . NSUBP .GE. 0 73.01->| 100 | 1 1PHM = 0 IPHM = 1 | NOTE 05 | SECTION | SECT SUBPH = PCODE(1) XMITPC(301) = BLOL (NSUBP) MITPELIBOZI = SPW xw17PC(J) = PCODE(J) ABORT (1) CHAPT TITLE - MERCUTINE FCENTYIX, Y) 73.10.

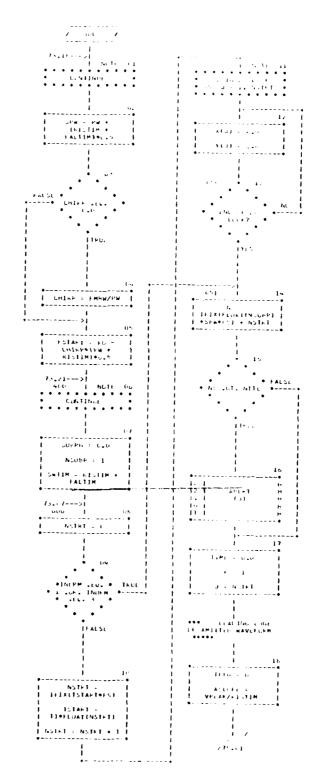
ABORT (2)

20:22

90



Secret tells of a resulting objectivity



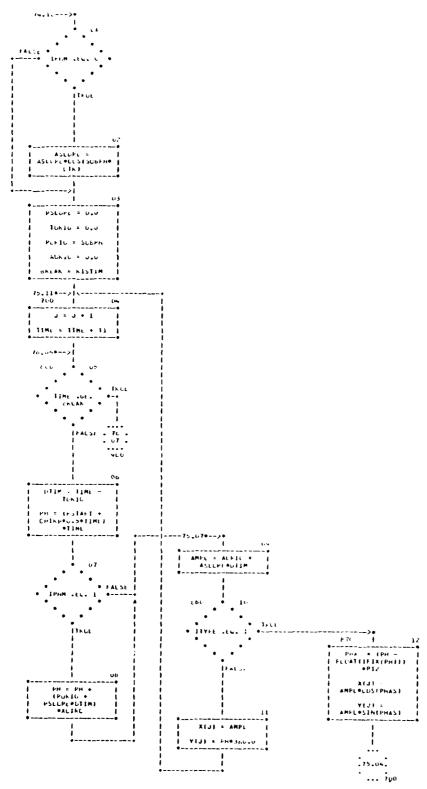


CHART TITLE - SUBMIUTINE FLENXVIX, Y)

		1501 21 1501 21 MTL + J - 1	1502 22 1502 22 X(M193)	BCCLINTL! X(M144) = 0.0 { X(M145) = 11	YIN193 = XIN193	Y(N154) = X(N154) Y(N155) = X(N155)	~~.	* FALSE * NPWTX .tu. 0	118Uk 77	[13]			
	1000 14	•	200	NUTE 15 NUTU 15 NUTE 15 NUTU	1 KKK = 0.0	V(K) = 0.0	1500 17	00 40 0H3	1465			,	
75.05> 07 18E6 - 18E6 - 1 TOLIG - 8REAK TOLIG - 8REAK TOLIG - 8REAK 18E6 - 18E6 - 1	IFALSE -		TRUE TRUE	lealse		TRUE	• • • • • • • • • • • • • • • • • • •		11 1866 = 1866 - 2	SUBPLISE	STEAK SPEAK + STIR	PSLOPE = 0.0 PORIG = SUBPH ASLOPE = 0.0	•
					PEP SELICE ACCILCA PROFE	3 - 4	3	TKUE	Iraksk 77 .	0000 V V V V V V V V V V V V V V V V V	SATIA SATIA	POLUPIA I LOURN - I	5

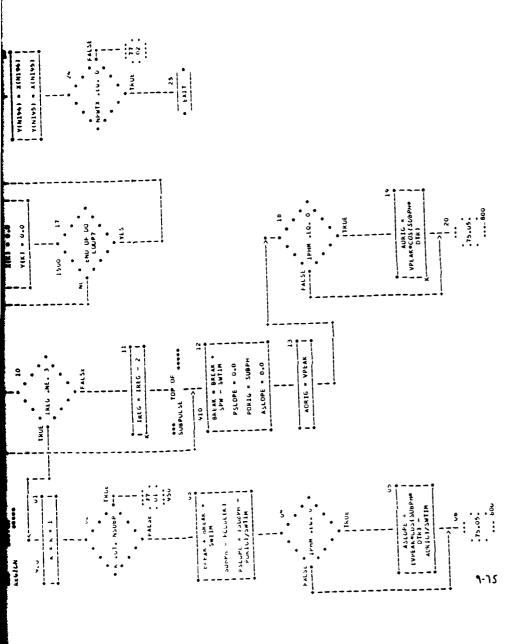
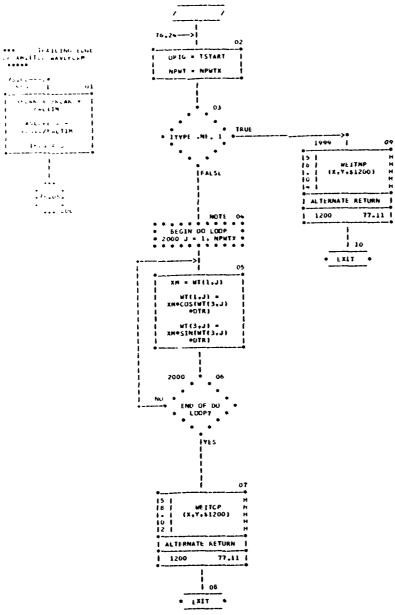


CHART TITLE - SUBMOUTINE FORNAVERSYS



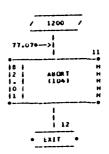


CHART IIILE - NON-FRICELUFAL STAFEMENIS

CCMMCN/BLK1/ VAR(200), WI(3,100)

COMMON/PECCOE/ XMITPC(502)

DIMENSION PCODE (300), X(1), Y(1)

LEUIVALENCE (WT(1,1) ,PCCDE(1))

ENDIVALENCE (VAR (2) FS) , (VAR (c) , FC),

(VAK(9), INURM),

(VAR(12) , T1) , (VAR(37) , NPWT),

(VAR(36), URIG), (VAR(92), CHIRP),

(VAR(Y3) , FMEM) , (VAR(Y4) , LPWIX),

(VAR (45) , SPW) , (VAK (40) , NSUBP),

(VAR(47) . SWIIM) . (VAR(42) . NISTIM).

(VAR(59) , FALTIM) , (VAR(100) , 1STAKI),

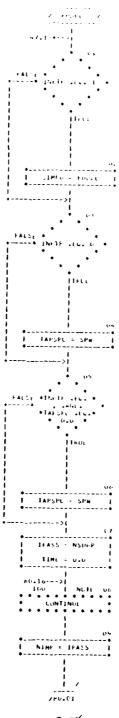
(VAR. 41) , FSTART) , (VAR. 40) , PW),

(VAR(129) , VPEAK) , (VAR(1) , N2)

UATA N193,N194,N195,UTK/-3,-2,-1,1,7453292E-02/

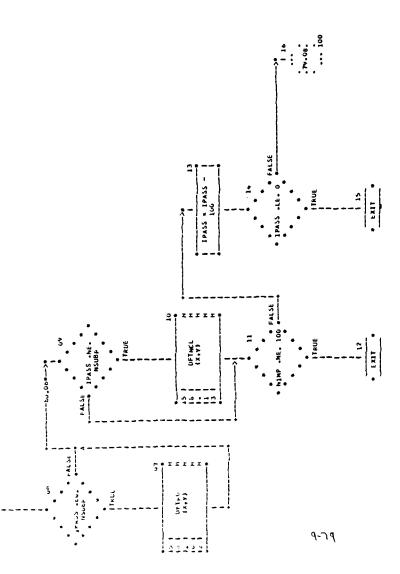
UAIA XCIRC/2.7777E-03/, PI2/6.2831853/

1



CHANT TITLE - SUBROUTINE PHOECIX,Y)

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	FALSE OV
17	STAN THE THE TANK THE



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UE/11/15

CHART IIILE - NUN-PROCEDURAL STATLMENTS

AUTGFLOW CHAKT SET - FWO/SCL RADSIM

DIMENSION X(1)+Y(1)

CUMMUN/PHCODE/ XMITPC(300),NSUBP,SPW

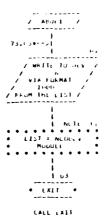
CUMMUN/BLK1/ ITEMP(199),NIMP,DIN(3,100)

EQUIVALENCE (ITEMP(102), FODEC), (ITEMP(154), TAPSPC),

INPTF) (ITEMp(8), SIMFO), (ITEMP(155),

. **(**

CHART TITLE - WORLDTING ASCRIBLICET





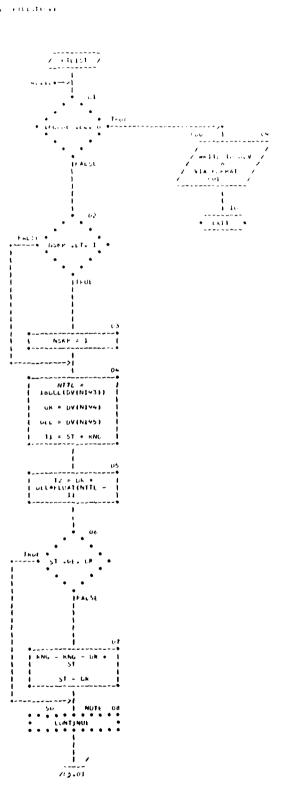
NON-PROCEDURAL STATEMENTS

CUMMENZSYSZ MUDUCE

1000 FIRMATE PRICE 2 *,15.* COCCERNIC OCFING CRICCITION OF MODULE 2 *,
15.*....FATAL ERREPT JUB MILL TO MINATE* 3

1001 FORMATER EFFOR : **13.* GCCGFFCC DOCING CACCUTION OF MODULE : *,
15.*....FIX-UP DONE, MEEC TO CAPAGE, COM NACE CONTINUES

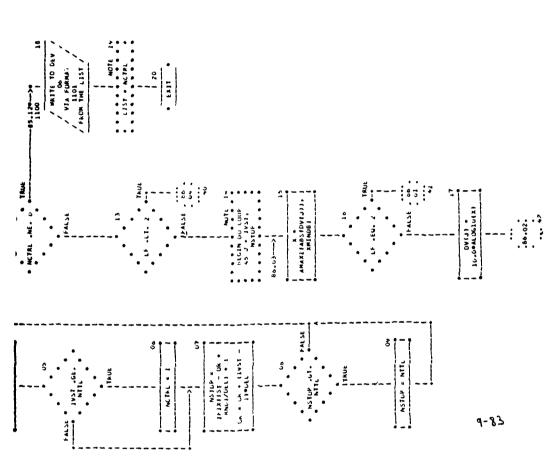
Committee of the contraction



04/11/75

CHART TITLE - SUBKOUTINE PTLISTIDUS

								1100 1 16	TO DEV	/ VIA FORMAT / 1101 / FROM THE LIST /		:	* L1ST = NCTRL * * * * * * * * * * * * * * * * * * *	2	• [1]								
	10	FALSE WSTOP LL. *	Tkut		11 NGTRL = 4		7	NCTRL -NE. U	•••	Falsk		••	•	* LF .LT. 2 ****	:	[FALSE . 86 .		NUTE 14	۵.5	• :		AMAX1 (ABS TOVE 1) . [XMINOB 1	
180c - 12 - 12 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15	144135	8	1 AMC - T2 - S1	7 NOTE U3	• • •	1 1/57 = 1+1x((5) - 1 1 1 1 1 1 1 1 1 1	MCTAL = 0	é		FALSE * 1VST GE. •	•••	TRUE		0	I MCTAL 1		NSTOP #	ACIZOELI + 1	Cx = Ck + (1851 -		3 .	NSTOP .UT.	



PTL = ALGG10(PTH) PTH = AMAX1 (ABS(TH), ABS(TL)) ITEST . JFIXIPTL) FALSE *TH .GT. C.0* 1CON = 3 1CON - 2 NOTE 17 / HKITE TO DEV / IFCODE / IN IN INTERNAL FORMAT/ FEDM THE LIST / NGUT = {NSTCP -1VST)/NSKP + 1 LINE(1) = BOOL(TH) DEL * DEL*FLOAT(NSKP) LINEIS) & NSTOP LINE(3) * IVST 7 1002 / LINE(2) ... BOOL(TL) LINE(S) = BUDL(UK) = BUDL(UK) = BUDL(UK) LINE(7) = BODL(RNG) MATE OT VOIL OUT Th = UV(1VST) IH = AMAX1(UV(3)+Th) TL = AMINITUV(J)+TL) 1L = 1h

CHART TITLE - SUBSCUTINE PTLISTIONS

01/11/30

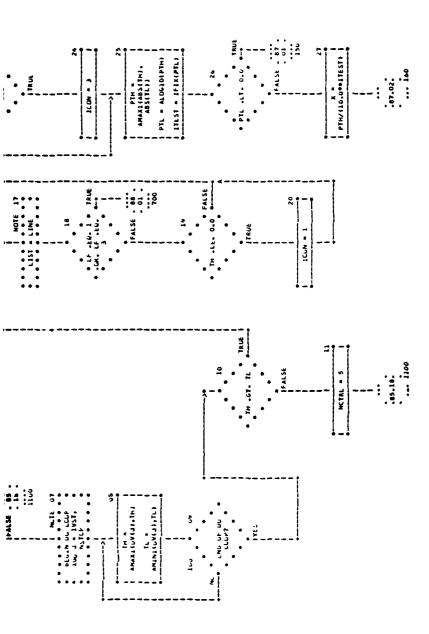
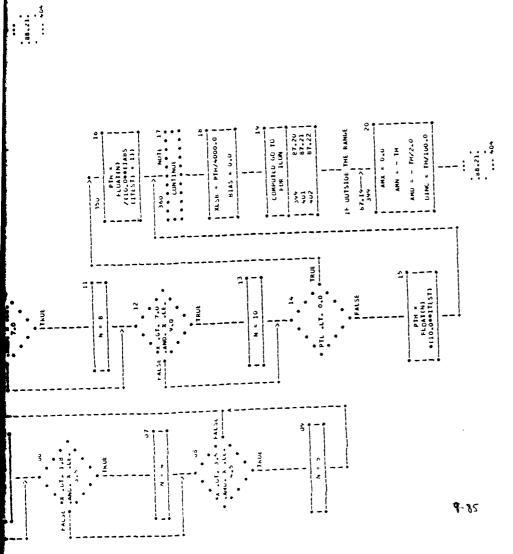


CHART TITLE - SUBRUDITNE PTLISTIDY)

87.19—> 87.19—> AMX = IN AMM = 0.0 AMM = 14720.0 0.1MC = 147100.0	87-1V/1 87-1V/1 AMX - 1H AMO - 0 AMO - 0 - 01MC - 1H/Duru	
		350 + 10 350 + 110 10,000 10
	FALSE ** .61. 4.5	11 12 12 12 12 12 12 12 12 12 12 12 12 1
00.26-2) 01.26-2) 01.26-2) 02.272 10.0 10	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



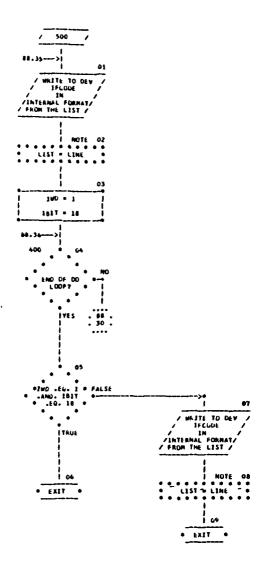
			19 PACK H 12 PACK H 12 PACK H 10 1911,1180, H 11 11100) H	ATTERNATE RETURN 1100 85.18 MOTE 29 MATERIAL LODG MOTE 29 MATERIAL LODG MOTE 29 MATERIAL LODG MOTE 29	11	FALSE *	· Transition of the state of th	7 TAGI	PALSE		1 1047 4099
;	+4.: * * **. **. **. **. **. **. **. **. *	• • • • • • • • • • • • • • • • • • •	20 0.02	MCIN. Nr. 0	1100 1100 1100 11100 11100 11100 11100 11100 11100 11100 11100	17W = (TW - 81A5)/7L50 LIME(1) = 800L(81A5) LIME(2) = 600L(KL50)	LINE(4) = 17H	24 24 24 24 24 24 24 24 24 24 24 24 24 2	IFCOR IN CHIEBAL CORNAT FROM THE LIST	MOUF 25	LIME 120 - LSTCH
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 00	FALSE N. 14, 30	0,0	FA15E N -E2, 60	TRUE	111,	F-0.05		nu.
7 036	O	20	FALSE AND 61.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O WARE LANGE TO THE TOTAL TO TH	FALSE 17. 77.	00	0 - XW = WW	OB OB OB O	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2

than tite - subhouthe Pflistings

1 ALTERNATE RETURN 1 1 500 80.01 1 PACK (10AT, 1MD, 1817, LINE, \$900, 1 1047 - - 4045 1DAT = 4045 FALSE FALSE | NOTE 25 / WAITE TO DEV / INFOME LONAL FORMAT/ FORMAT/ LINE(13) = LSTCH LINE(181 = LSTCH ITH = (TH -61AS J/KLS6 LINE(3) . M LINE(4) = 1TH LINE(S) - 1ft LINE LOI . NOUT LINE(1) = BOOL(BIAS) LINE(2) = BOOL(XLSB) 1 - gal 1817 - 18 BIAS . AMK -FLOATIN) XLSB . 0.01 XLS6 = 0.05 36 · K WAND .GT. ILP FALSE | AMM - AMM - 10.0 ANN " ANX -FLCATIN) 07 + 2 : 2

.

CHART FITCE - SUBACUTINE - TELESTIONS



NON-PROCEDURAL STATEMENTS

1161

801

CMANT TITLE - SUBMUSTIME PACKIDAT.IND.IBIT.IARY.*!

PACK

					+
			FALSE 12 - EQ. 12	110 11 11 11 11 11 11 11 11 11 11 11 11	FO(1817.9, JARYIMO)) = 11 1817 = 1617 + 9 FLO(1817.9, JARY(180)) = 12
#8.288-71 01 1	FALSE 111 .11. 32 ***	11 - 11 - 11 - 11 1 1 1 1 1 1 1 1 1 1 1	FALSE	MOTE O7	CE PALSE SER MUSE ABUVE

1817 = 0 1#0 = 1#0 + 1

		1 10	140 - 140 - 1 17	140 -51. 17 14	1 1
FALSE 12 . Eq. 12 .	110E		1 1017 - 1017 - 0	16 161 . LT. 35	EXIT .
inut.	12 = 12 - 1 1 1 1 1 1 1 1 1 1	12 . Lus 1 CANG . Lus 12 . Lus 1 Lus . Lus 12 . Lus 1 Lus . Lus 12 . Lus 1 Lus . Lus 12 . Lus 1 Lus 1 Lus . Lus 1 L	10 %1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,

UU/11/75

CHART IITLE -

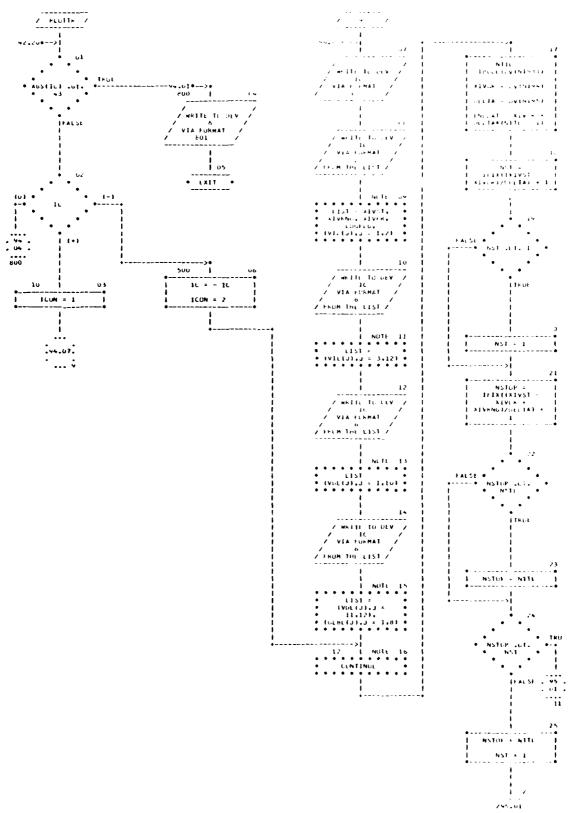
NON-PROCEDURAL STATEMENTS

DATA 1RUT/0177/ 18117/0100/ 1XCN/021/ 1CANC/030/

UATA 1EOT/4/.12/0172/.1CUNA/1/.1CUNC/s/

UIMENSION IARY(1)

CHART TITLE - SUBFOUTINE PROTTETOVE



CMART TITLE - SUBROUTINE PLOTTRIUY)

######################################	14 14 15 14 15 15 15 15	7 E
TAUE TAUE	11	200 1 NOTE 66

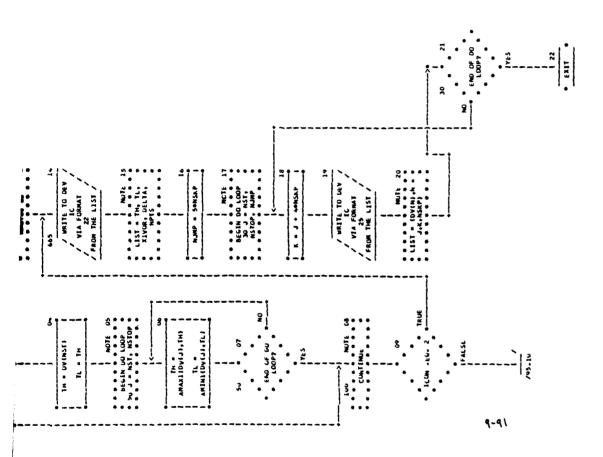


CHART IIILE - NUN-PRUCEDURAL STATEMENTS

COMMON/BLK1/ BK1(200),V1L(50),VDL(56),6LBL(50)

				-	31	113).	(8K1(113), 1C	_	
-	1.	661,), (BKI(66), TL)	1	651.	(BK1(65), TH	_	
-).(6K1(64), NAUTO	641,	6K1().(NSKP	631,	(BK1(63), NSKP	_	
•).(BK1(62), LOGFLG	621,	BK1 ((BKI(61), XIVFR	61),	8K1(~	
).(BK1(60), XIVRNG	60).	BK1()•((BK1(54), XIVST	541.	BK1(-	EUUIVALENCE

UATA N193,N194,N195,N196/-3,-2,-1,6/

DIMENSION DV(1)

-	
CUTPUT	
DATA	
CARD DATA	
PUNCH	
*	
FURMAT(.	

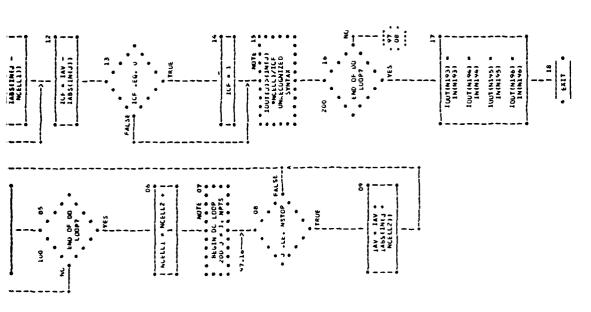
. TRANSFERED.)

FURMAT(" PLOT DATA FILE IMPROPERLY DESIGNATED...NO DATA", 801

/ OCFAR /

CHART TITLE - SUBRCUTINE UCFARINGIQUT)

| NETLY | NETY | NETLY | NETLY



68/11/75

CHART TITLE - NUN-PROCEDURAL STATEMENTS

CUMMUN/BLKI/ BK1(200)

DIMENSIUN IN(1),10UT(1)

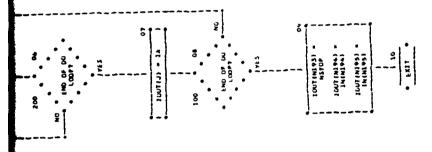
ENUIVALENCE (8K1(170), NCELL

DATA N193.N194.N195.N196/-3,-2,-1,0/

CHART TITLE - SUBROUTINE DIGTEL(IN-10UT)

06/11/75

NSTOP = NSTOP -ITAP(3,NTAPS) TOUTCA) . IA



HON-PROCEDURAL STATEMENTS

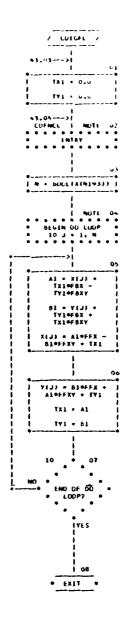
CUMMONZELATANTIZODI-JTAPIZ-1001

DIMENZION IMITI-TOUTILI

EQUIVALENCE (BRITILITY WIAPS

DATA MISE-MISS-MISS-MISS-100-

CHART TITLE - SUBROUTINE COTGRETER, VI



NON-PROCEDURAL STATEMENTS

COMMON/BLK1/8K1(500)

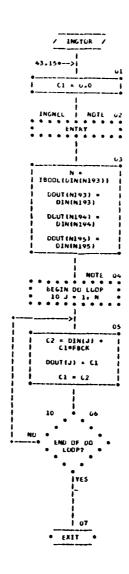
EQUIVALENCE (BK1(68), FFX), (BK1(69), FFXY).

(8K1(70), FBX).(8K1(71), FBXY)

UATA N193/-3/

DIMENSION X(1),Y(1)

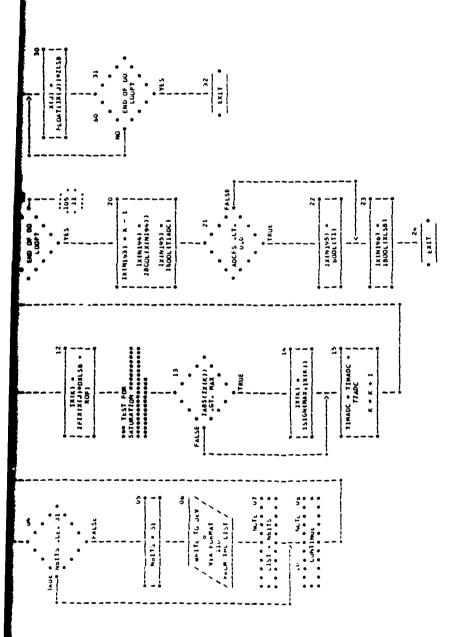
CHART TITLE - SUBRUCTINE INSTUREDINGOUUT)



NON-PROCEDURAL STATEMENTS

CMART 1111& - SUBROUTINE ATCOCK,1X1

40.170-> MOTE 25 60.170-> MOTE 25 EMTRY WALTE TO DEV VIA FORMAT 130	27	BEGIN DE LUGP 60 1 1, N 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MO END OF UU • LLUP7 1715 1715 1715 1715
	30 10 10/*) ADCFS 11 17 1	the Time 111	
8	MAX = 2001MBITS - 1 ROF = 0.50 CONTINGF 1 DXLSB = 1.07XLSB 1 OXLSB = 1.07XLSB 1 OXLSC = 1.07XLSB 1	FRUE LT. TIMAGE TIMAGE FALSE FALS FALSE FALS FALSE FALS FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALS FALSE F	FALSE
**************************************		I DECULTANIUS)) I DECULTANIUS)) I PALSE I PALSE	



CHAKT FILLE - NEW-PRUCEUUKAL STATEMENTS

CUMMUN/BLK1/6K1 (500)

DIMENSION X(11,1X(1)

EUDIVALENCE (BK1(163), XLSE

(BK1(104), NbITS), (BK1(105), IRCFF

(BK1(144), AUCHS

UAIA N193,N194,N195,N196/-3,-2,-1,0/

FURMAT (* NBITS IS EXCESSIVE. THE VALUE OF NBITS HAS BEEN SET TO 110

. 71.

FURMAT(/// 49X+** * * A TU D CUNVERTER * * * **/ / 1 120

FURMAT(/ / 49X .* * * * D TU A CUNVERTER * * * * / /) 750

WHAT HATE - GREGITAN - KLAUFERANTE

/ FURBLE / FP1 - C.0 KK. - U.U F44 - 640 KKU = KK10F61 + KR70F62 + XfJ1 | Y(J) = RIU*FFU * KKZ - KKI KRI = KRU k12 = k11 = k1 k)1 = k10 • <u>• XII</u> •

NEN-PROCEDURAL STATEMENTS

COMMONZERIZARIOSO)

EWULYALINU: CHRICOLA PEO J & CORLEGOJ, CO. J & CORLEGOJ, PRI JA

CORLEGIJA, PO. J

LATA NIMAZZAZ

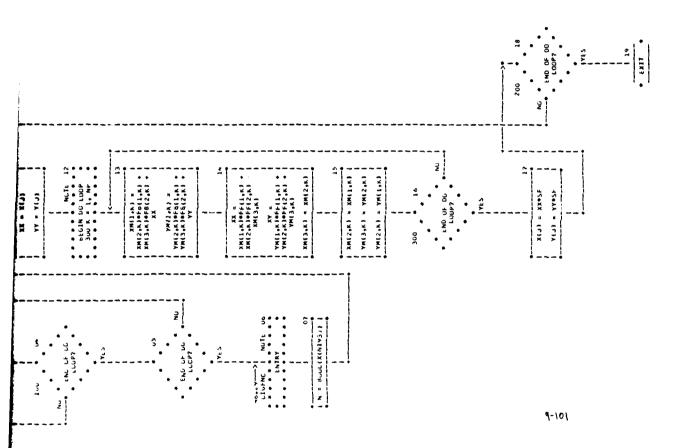
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9-100

CHART TITLE - SUBROUTINE DIGFILIX.Y)

06/11/75

/ FCMFL /	MUTE UE ENTRY ENTRY	N = 1	XX = X(J) YY = Y(J) YY = Y
/ 010F11 /	NUTE C1	MUIE U2 MUIE U2 MUIE U2 MUIE U2 MUIE U3 MUIE	NO ENC CH OF OC LUCKY 100 - 100 C C C C C C C C C C C C C C C C C C



CE/111/75

CHART TITLE - NUN-PROCEDURAL STATEMENTS

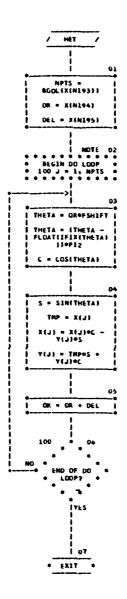
CLMMON/8LK1/ 8K1(200), FB(2,25), FF(2,25)

LUUIVALENCE (BK1(199), NP) , (BK1(74), SF')

UATA N193/-3/

UIMENSION X(1),Y(1),XM(3,25),YM(3,25)

CHART TITLE - SUBROUTINE METCHAY?



NON-PROCEDURAL STATEMENTS

DIMENSION X(11)-Y(1)

CGMMON /BLKI/ VAR(500)

EQUIVALENCE (VAR(15), FSMIFT)

**ATA %103,%104,%105,%106 /-3,~2,-1, 0/,P12/6.283185/

CHAKT TITLE - SUBRCUITNE ECMEX, Y)

1 IFIX(JSTAKT/ULLT) 1 357 = 1 111X(JPWZOŁLT) + 1 366 CHIRP2 = JFRBM/JPWeu.5 FSTRT # JFO -JFMBWeC.5 JST - NTTL 186. 7 200 NTTL = 200N2 NRPT = 0 100 AN T NEANUTED JAJANT = (JASIM + I JVEL#TIME) t serlingual Mark LANG & GANGE + NPTS *
SUDL (X(N)VS) LEGAINIARSIN LINGIZJANG) 927.7278) CAN SU LCMF SF (AN.YR) 1.0 X? = 0.0 *7...!

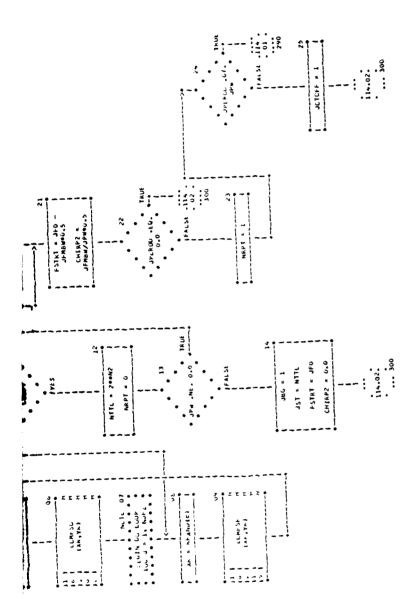
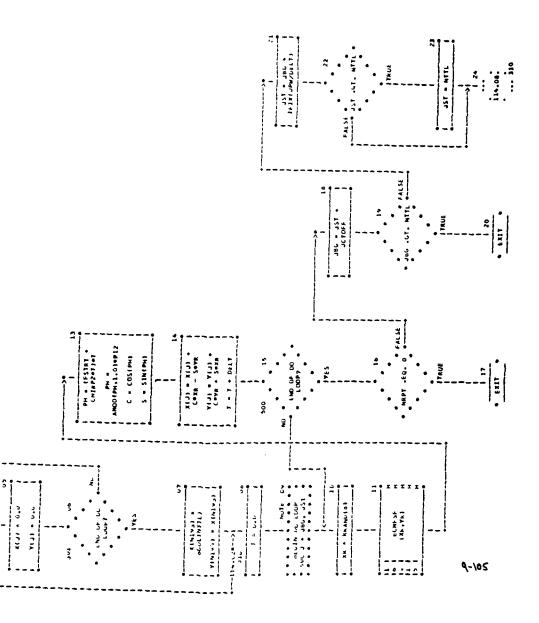


CHART TIFLE - SUBRILLINE &CMIX, V)

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* -	PH = {F5781 + } CMIRP2e11eT PH = AMOU4PH:1,01eP12 C = COS(PH)	S = SIN(PH)	K(1) = K(1) + (GeRg - SeVR + (1) + (CeVR + SeXR T = 7 + DELT	30
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Carried to the sales

CHART TITLE - NEN-PRUCEDURAL STATEMENTS

CCMMUN/BLK1/ 8K1 (500)

CUMMON/BLKRND/ DMY(8),YR

EQUIVALENCE (BK1(16), TIME) , (BK1(171), JRNGO),

(BKI(172), JRSIM) , (BKI(173), JMAZ),

(BKI(174), JHGT), (BKI(175), JERP),

(BKI(176), JFMBW) , (BKI(177), JPW),

(BK1(178), JFO

(8K1(156), JVEL), (BK1(157), JPERGD)

) . (BK1(197), NDFZ .(BK1(1), N2

DIMENSION X(1),Y(1)

DATA N193,N194,N195/-3,-2,-1/,PI2/6,2831853/

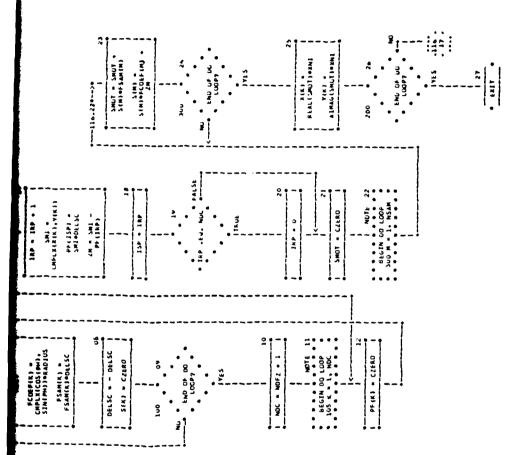
REAL JRNG.JRSIM,JMAZ,JHGT,JERP,JFMBW,JPW,JFO

REAL JVEL, JPEROD, JSTART, JRNGO

9-106

SUBALUTINE DIGFSF(K.V)	
	FSF(K.Y)

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10 (FANT)	



9-107

41/11/15

AUTUFIUM CHAKI SET - FWU/SCL RADSIM

CHARL TITLE NEW PROCEEDINAL STATEMENTS

LLMMEN/HLNI/ VAR (2001+15AM (100)

INCITABLENCE (VARCIUM), RADIUS 1 . (VARCIUM). NSAM).

(VAR (197), NEI 2

LUMPLEN 15AM. PP (256) . LUEF (100) . S (100)

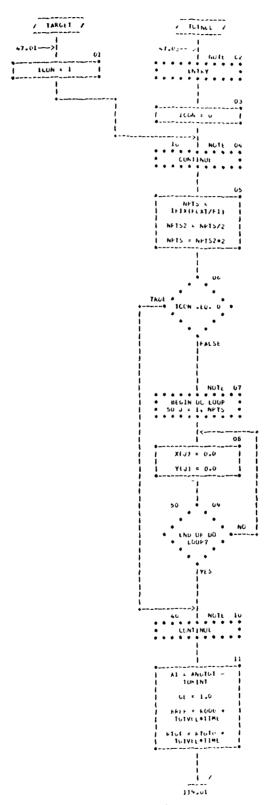
9-108

(| MPL | X | SM1+SM(1+2M+CZEKL / | 0+0+0+0)

LIMENSTON X (1)+X(1)

UALA NIMIZ-3/-PICZO-28 (1853/

CHART TITLE - SUBROUTING TARGETER, VI



9-109

CHANT THEE - SUBLIGHTING TANCETERS !!

XIN194) = -F1+FLOATENPTS/2) X(N193) = BOOL (NPTS) PHASC = 1 1 AMUNIUPHASE1.03 1 CS . ACCUSIPHASE) SN = ASSINIPHASE) SN = SNOACDEL + TEMPOASDEL | X(K) = X(K) + CS YIK) = YIK) + SN CS = CS*ACDEL = SN*ASDEL | FALSE K = K + KDEL TEMP = CS | NUTE OF 71 | NOTE OF 60 1 44 Skhl(†\$CAT(1,J)) | | L AZGAIN(ANGIGI) #GE 1 = 6/0.1456403 DEEPS PAULIUE AMULTUE PH. 1-UP DLLPH = - F101 Ct = Etuainiansin (HIUI/NIUI) #57,24578) DPHAS = - FUET A = NFTS2 + 1 K = KKLF + 15CAT(2+J) + CUS(1A1 - 15CAT(3+J)) + U-CI745331 ACDEL = CUSTOLIPS) Asott # SIMILELPS IFASS = 1 KULL = 1 110.41---> 119.16--->

1PASS - 2

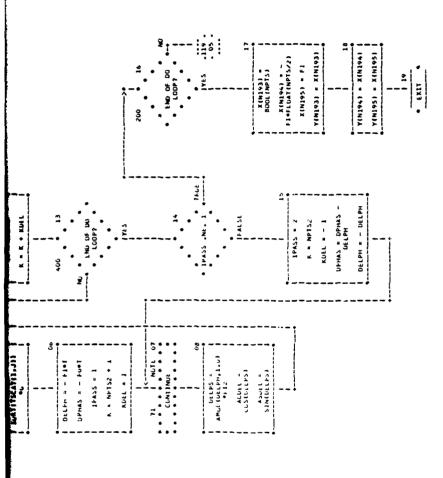


CHART IIILE - NUN-PRUCEDUKAL STATEMENTS

CUMMUN/BLK1/ 6K1(206), TSCAT(3, 106)

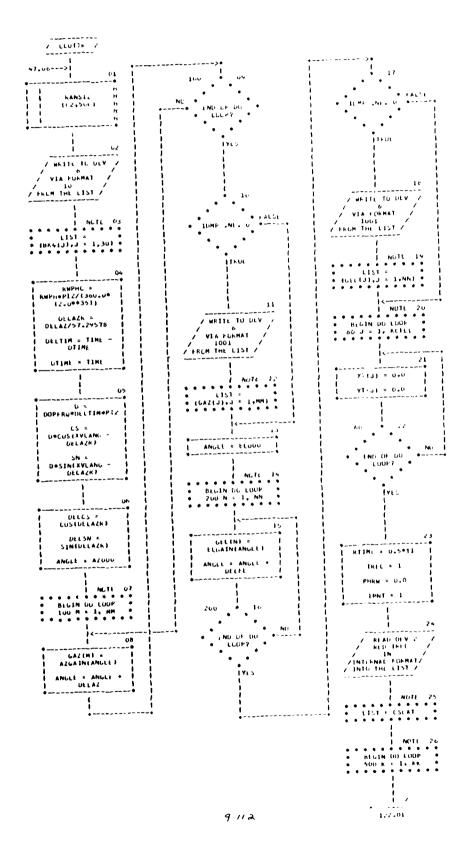
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FexT		нТСТ	ANGTGT	KOCO	IGIVEL	
).(bkl(4), feXT		DK1(106), HTGT), (chl(106), ANGTGT). (EKILLIO), KOGO),(DAI(112), TGTVEL	
) • (:) . (•	_
J.	FI	IUMY	ATOTO	TCKINT	NSCAT	F
(BK1(3)+ FU	(6K1(11), FI	EK1(21), 10MY	BK1(107), ATUTO	BK1 (105), TCKINT	BK1(1111), NSCAT	1 5K3 (1 4) - 11K2
_	_	~	_	~	_	,
EUUIVAL ENCE						

DIMENSION X(1) , Y(1)

UATA N193,N194,N195,N196/-3,-2,-1,U/

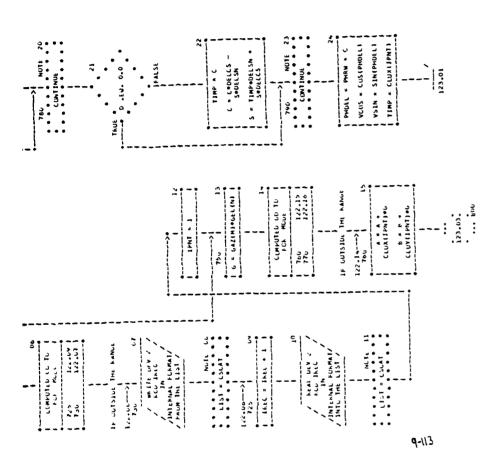
UAIA F12/6-2831853/

CHART TITLE - SUBMOUTINE CHUITKERS, YT, GAZ, GEL, 41



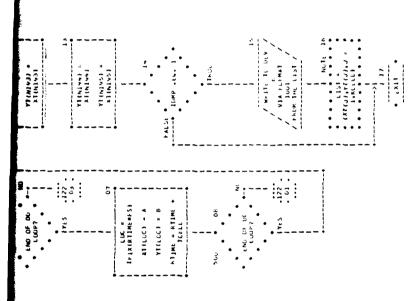
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122.14—> NUTE 10 NUTE 1	INU = IKANU (AKD) IKND = IKND + IKND + IKND + IKND + IKND + IKND IKND = IKND IKND = IKND IKND = IKND IKANU (AKD) = IKND IKND (AKD) = IKND IKANU (AKD) = IKND IKND (AKD) = IKND IK	TRUE 0.00 1.1 PALSE FALSE FALSE
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CLMMLN/BLKI/ BKI(200)

CUMMUN/ELK330/EK4(50)

DIMENSIUM GAZ(11), GEL(11), CLUX(250), CLUY(250)

CUMMEN/BLKRND/ IIII(12),NKAND(124)

DIMENSION XT(1), YT(1), CSCAT(500), 1KAND(128)

ECUIVALENCE (CLUX(1), CSCAT(1)), (1KANU(1), NKANU(2))

EGUIVALENCE (CLUY(1), CSCAT(251))

	-	:			:	:	-	-	
	1.(FK](21), 10MP	• FS).(EK4(9), A2000), (ok+(12), EL000	*	1.(6k4(17), DELAZ	
	(21)	(2)			<u>}</u>	(21)	() ()	(11)	
	1. (ck.)	1. (EK.1 (2), FS	:	:) • (EK4) . (OK 4	1.(3k4(14), KK) • (bk 4	
	TCt.LL	11	KEFH	(8K4(6), RNEXT	(FK4(7), KNGGO	Σ	z	MCLE	
	141.	121,	31,	61,	7),	10).	13).	16),	
	(8K1(14), TCLLL	(6K1(12), TI	(8K4(3), KWPH	(BK4((5K4((EK4(10), MM	(BK4(13), NN	(BK4(16), MCDE	
1	ENUIVALENCE								

1. (FA41 14), XVLANG

1. (BK4(21). DOPFRG

18K51 2412 16FLG

(BK4(18), OLLEL

-	-			-	-	•	-	•	-		
ICMP	FS			A2000	£1000	*	DELA2	XVLANG	DUPFRC		
211.	21,			•	12),	14),	17),	19),	21.1.		
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(8K1f 14), TCLLL	11	T MAR	(BK4(6), RNEXT	(FK4(7), KN000	Σ	Z	MCDE	(8K4(1E), OLLEL	(8K4(20), 1CFC6	(9K41 22), KCELL	TIME
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(BK1C	(6K1(12), TI	(8K4[3), KWPH	(BK4((FK4((EK4(10), MM	(BK4(13), NN	(BK4(16), MCDE	(BK4((8K4((4K 4 ((cki(16), 11ME
ENUIVALENCE											EULIVALENCE

DAIA N193. h194. N195. N196/-5.-2.-1.C

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ic FURMATOR , CLIFEN, 12, EX, CLIFEX, CLZ, EX, CLZ

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CHART TITLE - SUBRUCTINE NVGUIDIX,VI

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XMLEW HETERS) *
CNSTIMANOSEC/METER) CF. = CFRE DACFRED

13 = CAST EXMLENC

12 = T1 = P12

NPTS = BODL (X (M193)) / WYGUID /

8	i		8
	X(N194) •	DELF = XIN195)	MOTE
	FREG " X	DELF .	

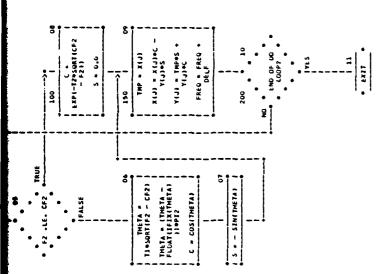
F = XIN195)	NOTE 03	
DELF =	BEG1N 200 J	

	3	FREQ*FREG	
•		F2 = F	

		361
I FZ = FREQUERRO (\$0	FZ .LE. CFZ

EXP[-12-508](CF2 - F23)	150 00	(L)X = 441	S*(C)*	Y(J) = TMPeS +	FREG # FREG .	- Dête
	8	THETA # 1105GRT (F.2 - CF2)	THETA E (THETA -)	110912	C = CUS(THETA)	

07 1 S = - SIN(THEIA)



HOM-PROCEDURAL STATEMENTS

CUMMON/BLKI/ VARISOON DIMENSION X(1), Y(1)

EQUIVALENCE (VAR(146) . CFREQ) , (VAR(147) , MALENG) EGUIVALENCE (VARI 3) , RFFO)

DATA N193.N194.N195/-3.-2.-1/.CNST/3.3333/.P12/6.283185/

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/ John / 47.14---> VARIATEL CLOSES AS INTEGRATED CALCED TO URNETY ALING PEUPALATION FATH (ELECTFUND/CM+CM) 1 214N FRIG - (X(4)194) + FFF1101.ct + 09 MILE OF MALE O Incha connected IME : X(J) C - COSTINCTA) X(J) - X(J)+C -Y(J): TAPPS
Y(J)()

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MCN-PRECEDURAL STATEMENTS

CIMMENZHERIZ VARESON)

WIMENSEUN XEEDSVEEL

CAUTALENCE (VAREENEE SCHEENE E. (VAREE E. CONTRACTOR)

WATA NEWSTWA, NEWSZESSTEINEEZ (CONTRACTOR)

CHART TITLE - FUNCTION IPACKLISTK, 1DATA, 1WGRD)

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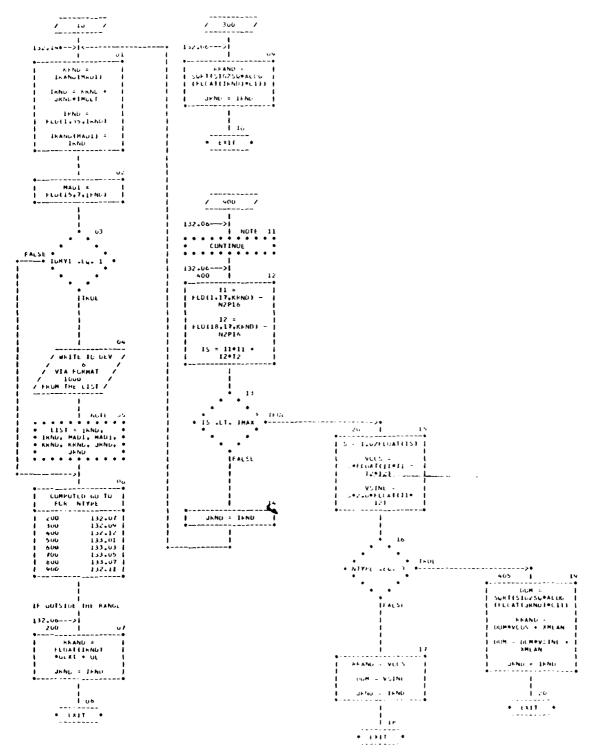
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NON-PROCEDURAL STATEMENTS

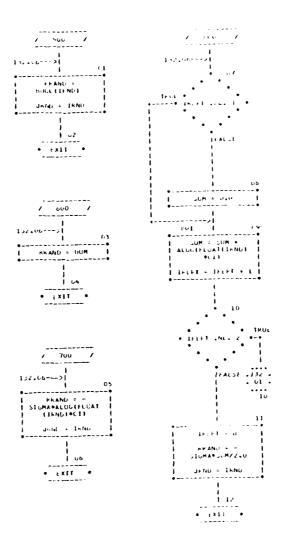
EJUIVALENCE (IX.XI)

CHART TITLE - FUNCTION - KNAMEINTYPET



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CHARL BARES - CONCRETE TO SPANGEMENTALE



A CHE PHOCEOURAL STATEMENTS

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CHART TITLE - FUNCTION JELD (1ST, NEITS, IMCRD)

* EXIT

A Termination of the property of April Mills.

CHARLEST CONTRACT AND ARTEMENTS

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COMMITTING THE FOLD OF A MARKET AND A STATE OF THE PROPERTY OF

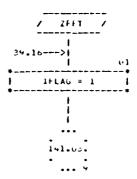
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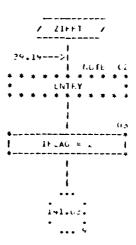
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and the second s

- CHART TITLE - SUCKOUTINE AFFT(X,Y)





9-125

32 | 26 32 | 26 / WkITE TO DEV / VIA FUKHAT / S 3 3 / FRUM THE LIST / | NCTE 27 ... 500 701 | NUTE 20 | NOTE 23 L00P2 . 30 1 1 11 = NP + 1 X(T) = X(T)+KT 7(3) = 0.0 0.0 = (L)x Y(1) . 0.0 * TRUE | * TRUE | | NOTE | 14 | NOTE | 14 | NOTE | 14 | 11 J = 11 NP | 11 J = 11 NP | 11 1 X(J) = X(J)*R1 Y(J) = - Y(J)0R] FALSE RI = 1.0 ~--1*1 "04e--> FALSE THURST THE PAINE TO THE PAINE T LUMPOTER OF TE ACTOR OF ACT NINKE - MINKE 142.01 IN GUISTUE THE KANGE NTILC - NINCUALE N. 2. 1.0.7F.1 FALSE OF SIMBM CIT. No. AP = 1 cook (Athawasa IPLAU : 5 I LIMBE : AC I JAUL 337

CHART FITTE - SUBROUTINE ZFFTIX.Y)

1v2.17--->1 hGIL ol n n n n n n n n n n n n n n n n

, 111

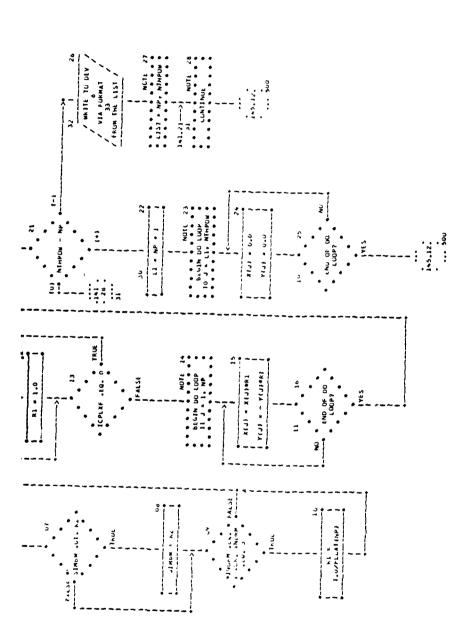
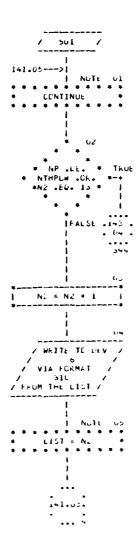


CHART TITLE - SUBROUTINE EFFTIX.Y)

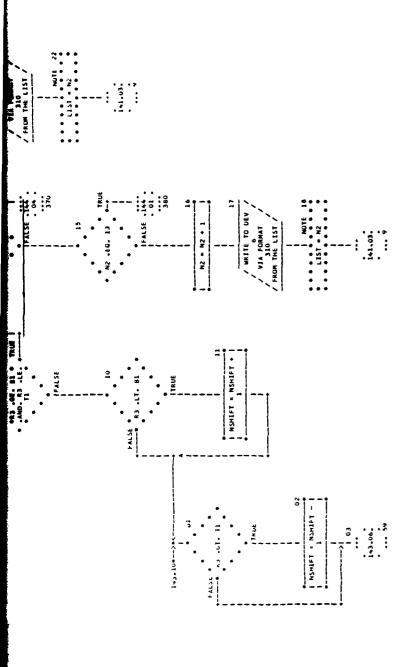


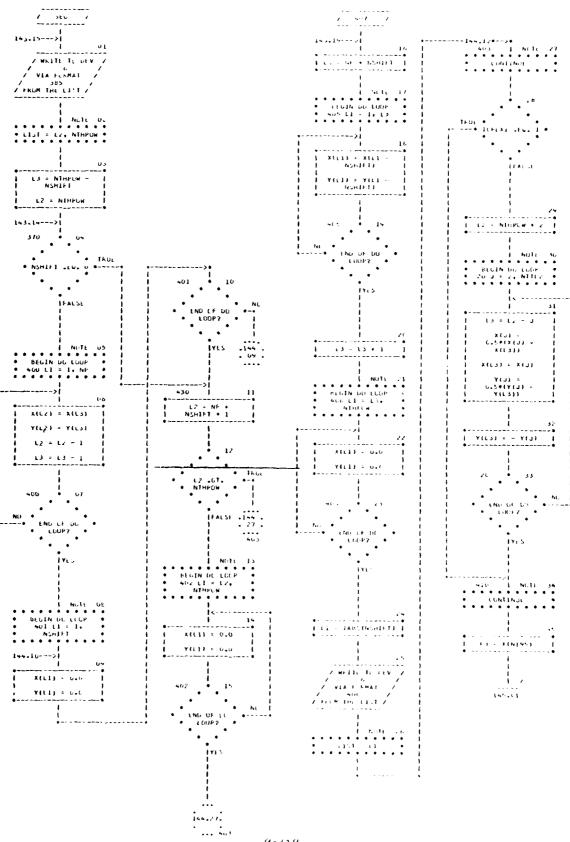
смая III с. - завиштив. 264111,111 - 2 2 2 2

	+U+ 14 • N2 - KU- 13 • N2 - KU- 13 • PAISE - 144 • PAISE - 1	WRITE TO DEV / VIA FURMAT / SIO / FROM THE LIST / LIST L	
	60 12 • NSHIFT LIT, 0	12 . L L	380 1 16 1 16 1 16 1 16 1 16 1 16 1 16
142.02—> 04 R1 = XIN194) • ESHIFT ESHIFT = FAMILY = 1	(43.03 -> 0.6 1.8		IRUE 111 111 111 111 111 111 111 111 111 1
			10

The state of the state of the state of

A CONTRACTOR OF THE SECOND





144.53===>4	1 411 No.Te is		1 76
• • •	• • • • • • • • •	1 1 1	. 1603 + 51*(*2 ~)
racit +1/e, racin +		1 1	1 142 * (141, *)
*==== * * * * * * * * * * * * * * * * *		, , , , , , , , , , , , , , , , , , , ,	i
1	1	1	Aluch = c2+161 = Aluch = c2+111 =
· · ·	1 X(NLV+) =	1 5	131
1000	1	1 1	1 YEU27 = \$2*(R1 - 1
i	1 114141 - 0.0	1 () = (1+(" - 1 + 1	1 K3) + C2+(11 - 1 1 13) 4
1	1 191./5*>1	•	
	500 NC3E 1.	i i	
•	. CONTINUE .		*** ***********************************
1 Faces published to the second to	1	1 . 1 = 4.4.4 + 1 1	X(J+) - CJ+(K2 + 14) - S3+(12 -
	1 1 1	1 (1:(5 1 1	(×4)
·	1	i i i	Yough = Sample + 1
• 1/2	I INDVERSEAT I I	15 = 05 + 00 t =	141 + C3+112 - H41
• • •	1 (NTMPUM3+X1N1953)) 1 (1 5N = C1+SUEL + 1 1	
FALLE # #	1 N4PCH = N277	i snecore i i	į
	!	1	2 . 26
· · · · ·	; ;		• • •
i •	14	• 0161N DG LCCP •	NU +
		• ε Styllic ÷ • 1	+ END OF DO +
; ;	1 • NAPOW .EQ. 0 •-+ 1	• LINGTH, NTHPUW, • f • EENGTH • f	
1		• • • • • • • • • • • • • • • • • • • •	1 • 17ES
(14	• • • • • •		
K3 = 1.0	I IFALSE .145 . I	*	i
1	1 -31 - 1	IL = SECURC -	!
•	1 13	1 J JI + NXILIH 1	į
••	; ; ;	i i i	• • • • •
LL = NITLZ	NOTE 15	1 J5 = J2 • NXTLTH 1 1	• • • NO
:	# 5(GIN HO EUDP # # 2 PASS = 1. NAPCH #	J4 - J5 + NX1(T6	♦ END OF DO ♦-+
1 mile vo	* * * * * * * * * * * * * * * * * * * *	!	* LOOP? *
• • • • • • • • • • • • • • • • • • •	1 145.30>1	23 1	• • • •
• 404 g = 1, NTIL. •	16 (F1 = X(J1) +	YLS .145 .
	I NATETH = ZPPENZ = 1	xtJii	;
1 1 1	1 2 PASS1 1 1	K2 ÷ X(JL) =	
1 1 1 1 1 1		X(**)	!
1 1	SCALL =		• 3x)
	PIZZORLE FELIAT (LENGTHI)	X(J4)	• • •
1 1 KZ = Y(L1)+K3 1		1 +4 - X(J2) - 4 (4 X(J4) 1 1	• • NO UF DO • • •
i Atlij - Xtuleka i	1 1,	ii	• 1.00P7 • I
	•	į i	· · · · · · · · · · · · · · · · · · ·
UE VE	CDEL =		17:5 .145 .
1 1 Y(L1) - Y(J)*K3	Stret =	1 11 ± 44713 + 1 1	. 16 .
1 i 1	USINISCALED	i li	• • • • • • • • • • • • • • • • • • • •
1 1 x(1) = +1 1	CS = 1=000 1 1	1 15 - A(11) - 1	145.14>
Y(J) = hc	1	1 11 : Y(J, 1 + 1	3 • 31
1		Y1341	• • • • • • • • • • • • • • • • • • • •
į i	i i	- 45U21 -	• # • INUE
1 404 6 (4	i I NETE 16	1 Y(U+) ; 1	• N2 .Eu. • • • 29N4PCH • [
i Nu	1	1 1	•
****** IND LF UL .	2 3 2 1 WILLIA		•••
• (1667 •	1 1	4 x(J1) = F1 + F3 - ()	
•••	•	1 7(011 ± 11 + 13	1
IYLS	•	i 1 1	,
ļ		3(J)1) 4 (1*162 -	1 1 NGTE 32
•	!	h 443	* * * * * * * * * * * * * * * * * * *
	!		• 4 J = L. NTHPOW, •
•	•		• • • • • • • • • • • • • • • • • • • •
			:
			į,
	_		
	9-/	130	196.01

+>#	·>• ·-	>* *	
1 1	1 10	NUTL 24	1 32
1 × = x(0) + x(0 + 1	i i 14 = 1 i	* LLYJ1 = J13, £14, *	• • • • • • • • • • • • • • • • • • • •
1 1 " 1		113	, NO
			• END CF DG •-• • LUGF? •
1 1 A(J) = N	* * * * * * * * * * * * * * * * * * *	1 25	•
) i	+ 7 J1 = 1, L1 +	• 25	• • • • • • • • • • • • • • • • • • • •
1 1 = 7(3) + 7(3 + 1		THUE .	iYES -140 . i . 16 .
	1 140.30> NOTE 12	•• 1J .Gr. J1 *	ļ ····
i		• • •	į
	* BEGIN DO LOOP * * 7 J2 = J1, L2, L1 *	* * * * * * * * * * * * * * * * * * * *	i
1 1 140 + 1 - 1401 - 1		i IFALSE i	e e •
	146.35> NOTE 13		* * NO
i i			* ENL OF DO *-+
1 03	* BEGIN DO LOOP * * 7 J3 = J2, L3, L2 *	26	* FPONS *
1 + At=1 + 1			• • • •
1	146.34>	i i I I	1 YES . 140 .
	NOTE 14	x(11) = x(21)	1 • 15 •
	* BEGIN DO LOOP * * 7 J4 * J3, L4, L3 *	x(JI) = 6	:
		1 1 = Y(13)	į
# 60 # # + END EF UL #	1 146.33>		* 34
* LUUP? *	NOTE 15	*	• •
• •	# BEGIN DO LOOP # 1	27	* END DF DG *-+
IVES	* 7 J5 = J4, L5, L4 * * * * * * * * * * *	4	* LULF? * !
1	1 140.32>1) Y(J1) = 1	
į	NOTE 16		1765 .140 .
1-0-11> NUTE U5	# 6EGIN DU LOOP # 1	7 1 28	j • 14 •
	1 * 7 Jo * J5, L6, L5 *	11=11+1	
* ELUIN DE LUBP * * c J = 1, 14 *	146.31>	<u></u>	;
	NOT: 17	! !	i • 35
<	* * * * * * * * * *	24	• • •
1 uo	1 + 7 J7 = J6, L7, L6 + 1	• • •	* NO
L(u) = 1 1	1 146.36>1	NO * * 1	• END OF DO •-• • LOGP? •
1	I NOTE 18 I	+ LCUP? •	• • {
i _ i			Tyes .146 .
7	* 7 J8 * J7, L6, L7 *	IVES	1 . 13 .
FALSE • • i			
+ a size he .	NOTE 14	: :	:
	1 * 00739 = 38, 19, 4	i !	i • 36
•••	* L8	30	• •
1166	: : :		• NU
1 1 1	NGTE 20 1	• NO 6 • END OF DO 0-0	• END CF DC •-• • LUDY? • [
	* 007J10 = J9, L16, *	• LUOP? •	•. • !
ا ا ا	* [4 6		1715 .146 .
L(J) = c**(Nc +	1 1 1	17ES .146 . 1	1765 -146 - 1 - 12 -
1 - 01	NOTE 21	1 .18 . 1	····
1	• • • • • • • • •		1
•	1 • 111, 110 • 1	· · · · · · · · · · · · · · · · · · ·	i .
ė uy		31	• 37
•	NUTE 22		• • TRUE
e e Nu i • END or Do e	007J12 = J11,	• • NO j	* IFLAG .tc. 2 *
• EULP? *	1 . L12, L11 .	* FMD DE DO 4-4	•
• •		**	••••••
1AF7	MOTE 23	• YES .140 .	FALSE .148 . . 13 .
ļ	1 0 007J13 = J12, 0 1	i . 17 - !	15
†	L13, L12		
i		1	•
Ų—————————————————————————————————————		•	· <u>-1-</u> /
		9-13/	147.01

CARRITATE - SUBROUTINE 2FFI(X,Y)

09 NP = NP = B1 = R1 - X(N195)/2.0	11 = R1 • XIN1951/2-0 147.18—-> 167.18—-> 10	WRITE TO DEV	**3 .GE. B1 TKUE **ANO. F3 .LE. **T1	FALSE 8 . 17. 81	12
11 = NTI	1, J = 1, NTL2 1, J = 1, NTL2 1, L1 = 1, NTL2	X(1) = Y(1) X(1) = R1 O4 Y(1) = R2	ENCOP?	XINY 44 - K2 XINY 44 - X2 XINY 4	FALSE 148

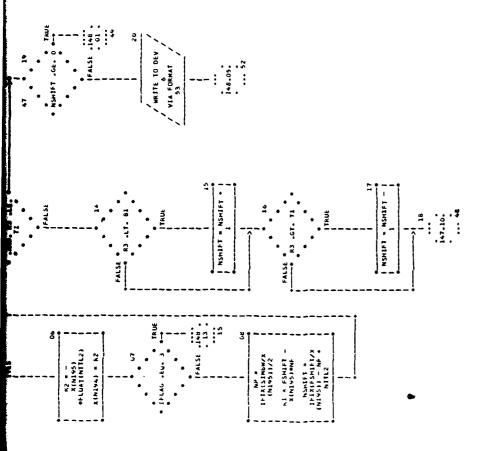


CHART TITLE - SUBREUTINE ZFFTEXOVI

		<u> </u>
01 1FT - NP - 1 02 02 02 03	TE TO DEV LELIST LELIST	1 18 18 15 Es
147.14 - 111	WAITE TO WAITE TO	X(N193) = 0.00L(NP)

*25

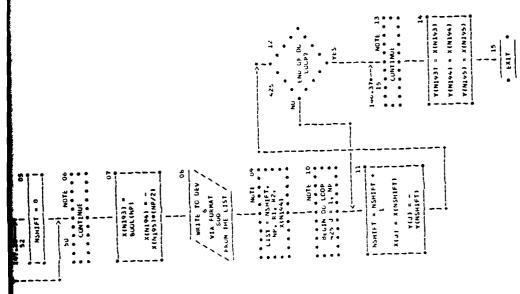


CHART TITLE - NON-PROCEDURAL STATEMENTS

CUMMUN/BLK1/ BK1(500) DOUBLE PRECISION CDEL, SDEL, CS, SN, CT, P12, SCALE EQUIVALENCE (N2 .BK1(1)) .(FSHIFT, BK1(15)) .(ICPLXI, BK1(6)), (ICPLXF.BK1(7)) .(SIMBW.BK1(4)) .(INORM .BK1(9)) DATA P12/6.2831853066700/ DATA N193.N194.N195.N196/-3.-2.-1.U/ REAL X(1),Y(1),I,I1,I2,I3,I4 INTEGER PASS. SEQLOC. L(14) EQUIVALENCE (J.JI), (N4PON.J5), (PASS.J6), (NXTLTH,J7), (LENGTH,J8), (SEQLOC,J9), (ISCALE,J10), (IARG.J11) , (A1,J12) , (C2,L1), (C3,L2), (S1,L3), (\$2,L4),(\$3,L5),(R1,L6),(R2,L7),(R3,L8),(R4,L9), EQUIVALENCE (L14,L(1)),(L13,L(2)),(L12,L(3)),(L11,L(4)), (110.115)),(19.1(6)),(18.1(7)),(17.1(8)),(16.1(9)),(15.1(10)), (L4.L(11)).(L3.L(12)).(L2.L(13)).(L1.L(14)) FURMATE NUMBER OF INPUT SAMPLES . 14. EXCEEDS SPECIFIED TIME . 33 1 SPAN=2**N2=1,14) 310 FURMAT (* THE SIZE OF THE TRANSFORM ARRAY HAS BEEN EXPANDED*, 110 2001.121 800 FURMAT(1H ,2110,6E15.6) FORMATI! THE NUMBER OF ARRAY ELEMENTS REQUIRED AFTER HETERODYNING! 15. *EXCEEDED AVAILABLE STORAGE...ARRAY REDUCED TO*.15. * BY DELETING HIGH FREQ TERMS*) FORMATI * NUMBER OF LOCATIONS REQU AFTER HETERODYNING . 406 *EXCEEDED AVAILABLE STORAGE...*,15,* ELEMENTS DELETED*, *FRUM NEGATIVE END OF ARRAY*) 53 FURMAT(* THE VALUE OF NSHIFT IS NEGATIVE...NSHIFT SET TO 0.) FORMATTIM .* THE SUM OF NSHIFT .110. AND NP .110. IS GT NTHPOW .. NSHIFT SET TO 61)

LHART TITLE - SCONEULINE NENEALOS

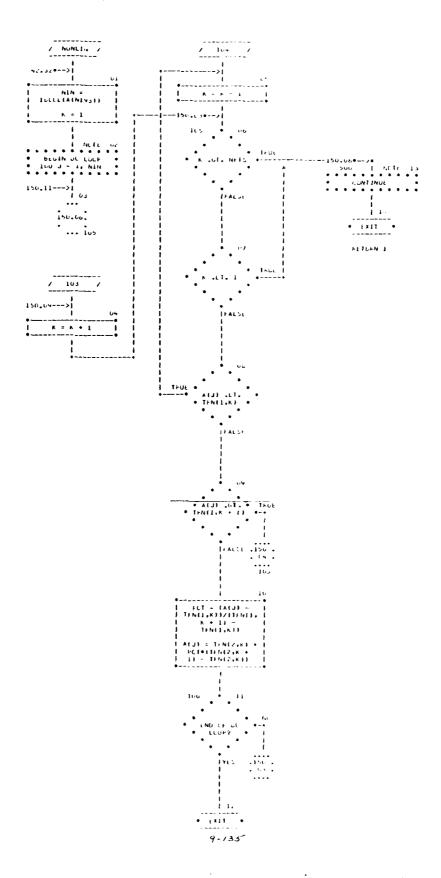


CHART TAILS - TUN-PROLECURAL STATEMENTS

CUMPUN/BLK1/6K1(500)

DIMENSION A(1), TEN(2,50)

ELLIVALENCE (BK1(21), 10MY

-

1. ICKHI CTH, NFTS

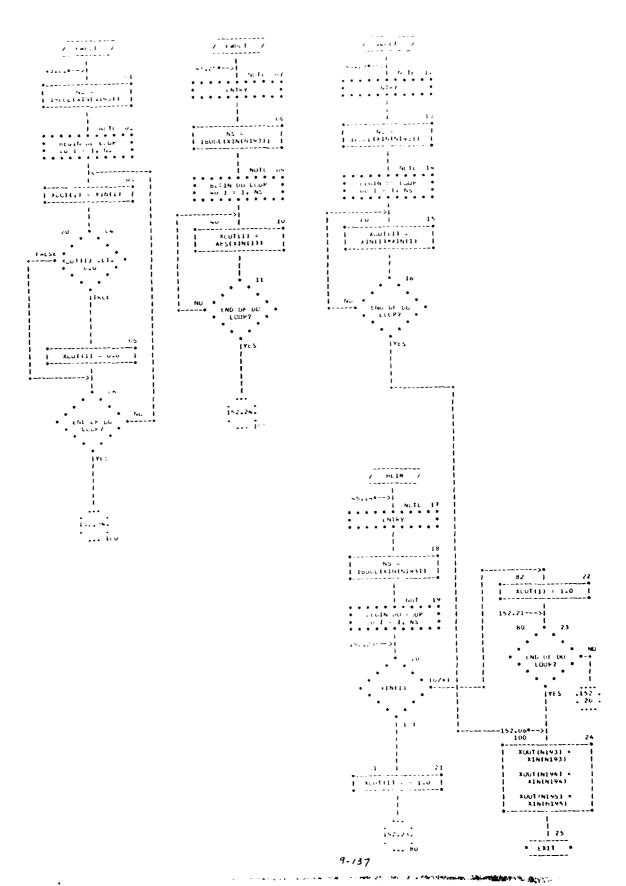
(BK1(201), TEN(1.1)

UATA N293,N194,N195,N196/-5,-2,-1,+U/

GENERAL DYNAMICS FORT WORTH TEX CONVAIR AEROSPACE DIV F/6 17/9 ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING, VOLUME II. PARA-ETC(U) JUN 76 R J HANCOCK, F H CLEVILAND F30602-73-C-0380 AD-A102 783 RADC-TR-76-186-VOL-2-PT-2 NL UNCLASSIFIED 3 of #

! !*

CLARE ELEC. - Complete Concettagoras off



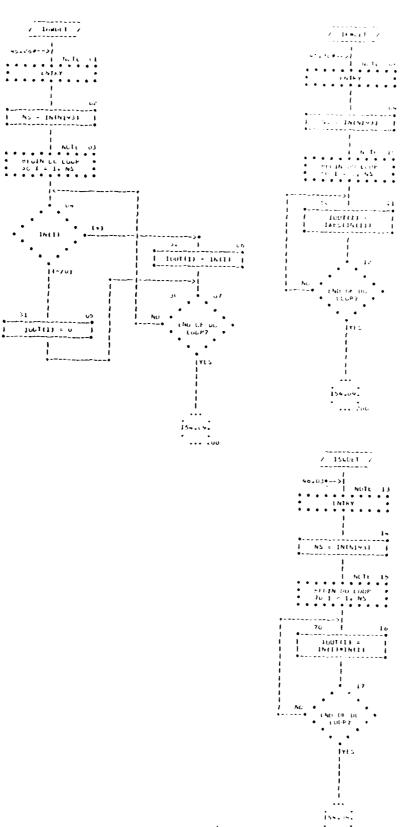
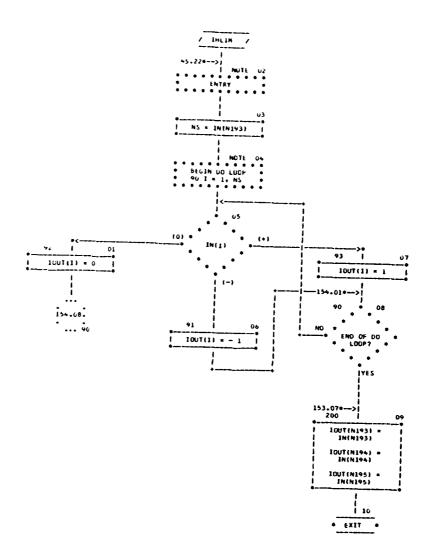


CHART Tales - SUBROUTING MMUET(XIN, XUUT)



NON-PRUCEDURAL STATEMENTS

USHENSION XIN(11,XOUT(1),1N(1),1OUT(1)
UATA N193,N144,N195,N196/-3,-2,-1,0/

		10	COEFIGN) =	A1 # A2		FLG = 0.5		100 17		t topps	•	, AFS		« ·		ANTP(2.L) + BSIT	COEF(2,1) = A1	COEF(3,L) = 81	1		COEFTIAN #	COEF(2.M) = 0.0	COEF(3,M) * 0.0	- COLETONIA - 0.0 1	#		•	/ WRITE TO DEV /	VIA FORMAT	/ FAON THE LIST /		2	/ WRITE TO DEV /
28 -	MLTE 07		COF (1, 76) *	NP12 = NP1 - 2	A1 = 0.0	B1 # 6.0	0.0		FL6 = 1.0		1 MOTE 10	* BEGIN DO LOUP * 100 K = 1,00		- ;		415	(ANTP(1,K) - 1 ANTP(1,L))	ANTP(Z.E.)		15	(ANTPOLYK) - I	/(ANTP(2,K) - 1	A2 = (XY12 -	TATESTATION (C.L.)	 2	62 = XY12 -	AVTP(2,L) + 1 1 2.0985179 1 1	1 1tmp = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C2 = ANTP(1,4R) -	1EMP0(A201EMP + 62)	 C2 * ANTP(1,K) .	62)	
/ ANTINE /	42.05>	. TRUE	•	IFALSE I		29 	LOLF [1,1] = 0.0	*	Cuth(3,1) = 0.0		6 0	1 cut 1 (1,42) = 360.0 1	4		1 CLEF (4.2) = 0.0		š •	•	NPI -NE. Z		IFALSE		6	CCEP(1-1) = 1	CUEF (401) # 1	COEFCL.23 =	ANIP(2,2) + 6517	90	Lut + (1,76) =	7 × 144			

4/11/39

CMAN TITLE - SUBRUCTINE ANTINTINPTABSITANTP-COEF)

ANTP(2,8) - 6517	COEF(2,M) = 0.0	LOLF13,M) " 0.0 1	1 0.0 = tmp4+100 +	<u>-</u>	40 NOTE 20	CONTINUE CON		77	/ WRITE TO DEV /	VIA FORMAT	/ 95 / / FADM THE LIST /		. — -	77 310N 1	+ LIST × NPT, BSIT +	• •	7	/ WRITE TO GAY	/ VIA FURMAI / 105	/ FKOM THE LIST /		NOTE 24	• (151 •	# ILANTPIJSKIP # # # E E E E E E E E E E E E E E E E	. L = 1,461.K = 0	* "**** * * * * * * * * * * * * * * * *	 52	• EXIT •	
/ ANTHION)	I ANTPEZ,MI)	AZ = (XV)Z =	- ANTP(Z-M3)		61	B2 = XY12 - A20(ANTP(2,K) +	1 ANTP(2,L) + 2,0085ITF		ANTPLZPK) + BSIT	CZ * ANTFILOR) -					1 C2 * ANTPOLISK! i	+ elazeanTF(Zzk) +	821		 COEF(1,4K) = 1	ANTPIZ,K1 + 8517	COEF(2,K) = 1		FLGe(61 + 62)			•			
	➡ ~	60	CLEPGIOLI =	CUEF (4+1) *	ANTPELLET	LDEF(1,2) = ANIF(2,2) + BSIT		90	141.		Nr1 + <	-		-:			9												

01/44/10

AUTOFILM CHART SET - FWC/SCL RADSIM

CHART TAKE - NUM-PROCEDURAL STATEMENTS

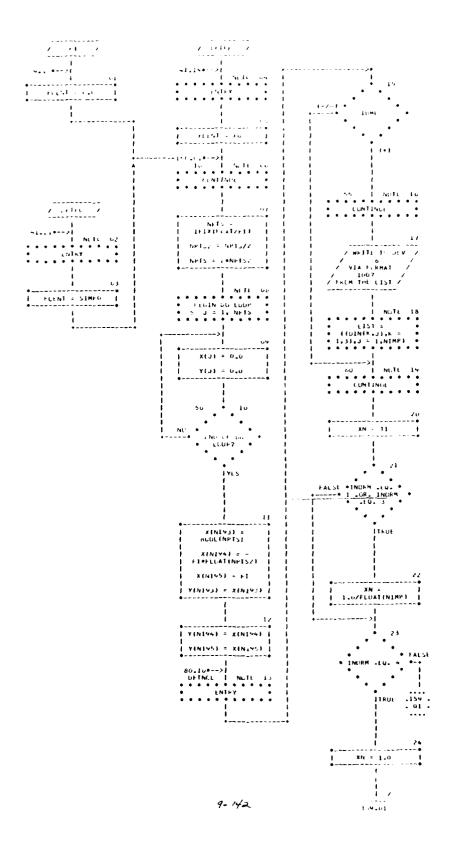
DIMENSION ANTP(2,75), COEF(4,76)

ESIT = ", 1PE13.7) NFT = 1,15, " FURMATOTHI, "SUCKOUTINE ANTINT 3

FURMAT (1H \$6(1PE20.7))

11.71

THATTER BELLEVIS - LITTER TANKS



1

CHANT TITLE - SUBROUTINE DETIXATE

LUGP? 75 | NOTE 19
CONTINUE ---• TRUL SN = SN*ALUEL + 1
TEMP*ASDEL + 1 X(K) = X(K) + CS CS = CSOALDEL -SNOASDEL Y(K) = Y(K) + SN PASS .NE. 1 K = K + KDŁL TEMP = CS 004 VIA FORMAT DELPS = {DELPH -AINTIDELPH}}*P12 FS = (pH -K = NFTS2 + 1 CS = CLS(PS)*A SN = SIN(PS)*A ACGEL = ASDEL = KUEL = 3 Thut

A = DIN(5,2)*Kh

1

PH = - FCLNT+T +

1 = DIN12.J)

UELPH = - F1+1

IVASS = 1

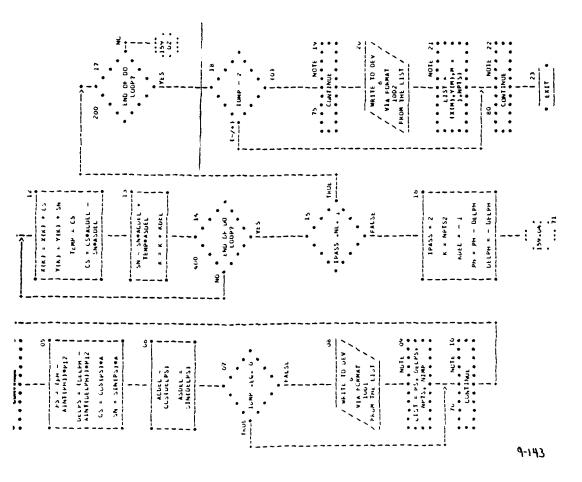


CHART TITLE - NUN-FROCEDURAL STATEMENTS

COMMON/8LK1/ 8K1(200),D1N(3,100)

EQUIVALENCE (SIMFO, 8K1(8)) , (FI, 8K1(11)) , (FEXT, 8K1(4)),

(NIMP.BK1(2001), (IDMP.BK1(21)), (FO.BK1(3))

.(INDRM ,8K1(9)), (TI ,8K1(12))

X(1) . Y(1) DIMENSION UATA N193,N194,N195,PI2,D1/-3,-2,-1,6,2831853,2,777778E-03/

FORMAT(IH ,8E15.5) 1001

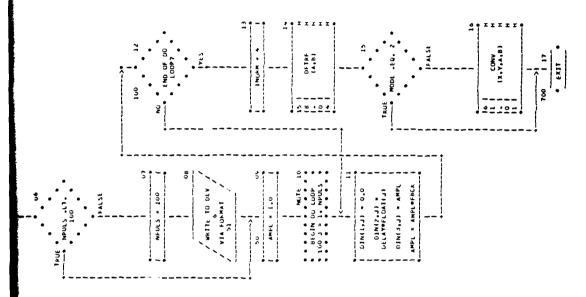
NIMPE NPTS= . 110. DELPH=',1PE13.6' FORMATI' PH=', IPE13.6' 1001

.,110)

FORMAT(1HO, 6E20.5) 1002

CHART BITCE - CUMBUCTINE RECFIX.Y.A.83

	160 12 NO 6 100 100 100 100 100 100 100 100 100 1	• "	1100RH - 4	
46.04—> 46.04—> 10 10 10 10 10 10 10 10 10 1	NFULS = 100	/ WRITE TO DEV / VIA FORMIT / V	AND TO	‡
100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				



(EART BATES - BUN-PHOLEDURAL STATEMENTS

CCMMCN/5LK1/ BK1(200), DIN(3,100)

DIMENSION X(1),Y(1),A(1),6(1)

EQUIVALENCE (BK1(75), FbCK), (BK1(117), KcUbel),

(BKI(118), RECIRT), (BKI(119), 1helak),

(BK1(77),DX), (BK1(7%), NKL#S),

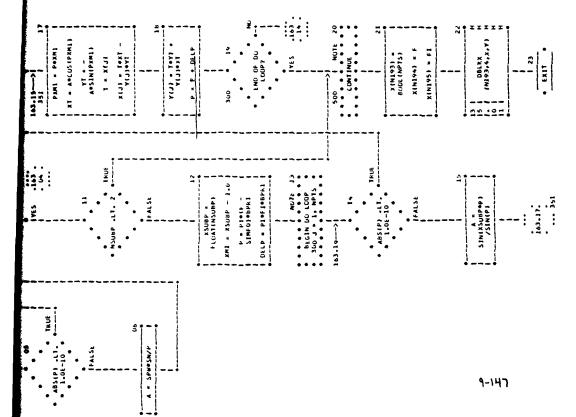
(8K1(200),NPULS),(INURM, EKI(9))

FURMAT(* RECEIVER PROCESSOR IMPULSE RESPONSE LIMITED TU*, 7.

. 100 LCOP DELAYS*)

CHART TITLE - SUBKEUTINE PAFRMIX, YE

						350 16	1 7	PXM1 = P+XM1	YT = Aesin(Pxh1)	- X+1 = (7)X	91	V(J) = Tey] - V(J) = Y (J) = Y	l	300 • 19	MO	•	14ES	 • •	
	100 100 100 100 100 100 100 100 100 100	JO JUNIAUO	! 4	7 5 5 6 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	200 10	LUOP?			= . · ·	NSUBP .LT. 2	i PALSI	12	KSUBP = 1	XM1 = XSUBP - 1.0	SIMFOJORPKI I I DELLO REPLICADORNI I I		Note 15 15 16 17 17 17 17 17 17 17	 <u>.</u>	1918
*0.130->	NPT2 c 1F1X(5)MDVP11/2 NPT5 = 20MPT52 F c = F10MPT52	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 PECP = P145195W	NOTE 03 SECINO LOUP SECINO LOUP SECINO SECINO	63.16>	I (d)NES = NS		* ABS(P) -L7. *	• =	3	J/NS.MAS = V								



08/11/75

CHANT TITLE - NON-PROCEDURAL STATEMENTS

CCMMCN/BLKI/ BK1(500)

EQUIVALENCE (SIMFO, BK1(8)), (SIMBW, BK1(4)),

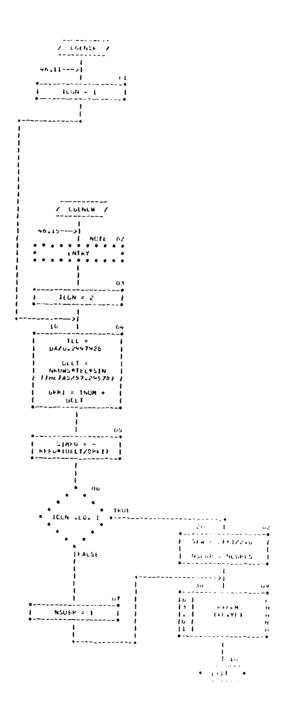
(Fi, 8KI(111), (SPW, BKI(95)), (NSUEP, BKI(96)),

(6PKI,8KI(114))

DIMENSION X(1),Y(1)

LATA PI,N193,N194,N195/3,1415926,-3,-2,-1/

CHART ITTE - DUDNOGTTHE CORNERSTATION



MEN-PALLELLINAL STATEMENTS

CUMMENZALETZ BETTOOLT

olmension FFII), viii)

ENDIVALENCE COMPLETE LIFERCHIE ENGINEER L'OFFICH MIN FIL DOLL.

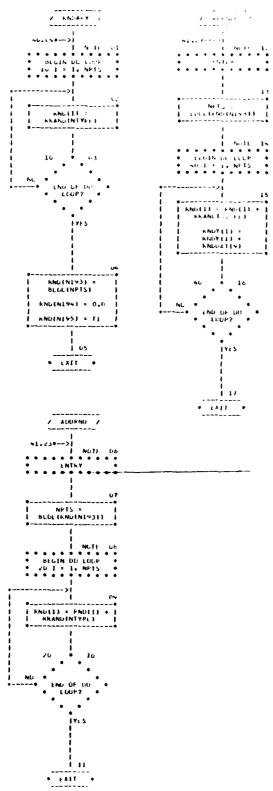
CHARLESPERIE PRESSEDENCES IN STREET CONTRACTOR

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9-149

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9-150

CHARA IITLE - NUN-PRUCEDURAL STATEMENTS

COMMUN/BLK1/BK1(50C)

CUMMUN/BLKRND/ RNDDAT(141)

UIMENSION RND(1)+RNDY(1)

EQUIVALENCE (BK1(44), NPTS), (BK1(45), NTYPE)

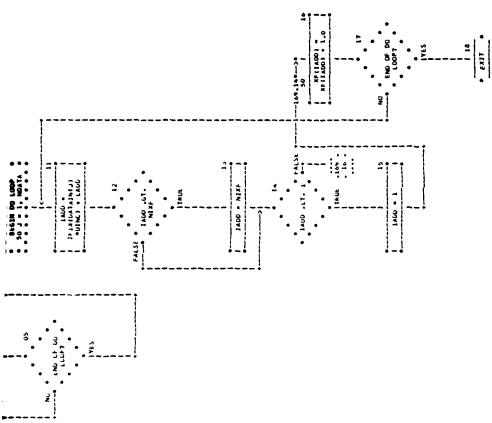
EQUIVALENCE (BK1(12), TI)

UATA N193.N194.N195.N196/-3,-2,-1,0/

NIXF ... | NUTE 10 | BEGIN DU LUOP | SO J F 1 NOATA | SO J F 1 NOATA | SO J F 2 NOATA | SO J F 3 NOA | MLTE 00 1000 | NOTE OB | DIMC * 1.0/UIMC 1 1- 1 X (DATAIN (L.) + 1 - 1 X (DATAIN (L.) + DINC.) + LAUG DINC = XF(N145) LADD F ADD PUINTS TO PROB-NDATA = 18UGL (DATAIN (N193)) FALSE TADO GT. / CUM2 / IADO = NIXF | NUTE 03 20 1 0.0 1 xf(1) = 0.0 f old the cold of CACCUCATE HISTOCKAM | X+(N)+4) = PLIM END LF DU ... LACD # 1 -IPIXIBLIMZDING) XFINIVS) = DINC / CURUIS / AF (N150) = buul (LAbb) ç XF (N) V3) = EUCL (N) XF) 34.15.0--> • 7 9-152

--169.146-->0 50 | | KF(1ADD)

1400 .17. 1



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Same Start also consistent

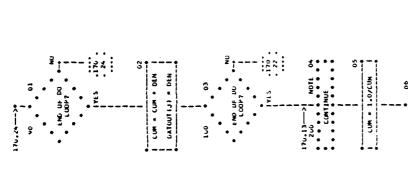
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,0.05e-> ,0.05e-> ,0.05e->	15 150N = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TRUE	18 18 19 19 19 19 19 19	DATOUT IN1 95) = 1 OATOUT IN1 95) = 1 OATOUT IN1 PACK I) 1 OATOUT IN1 PACK I) 1 OATOUT IN1 PACK II I OATOUT IN1 PACK II I OATOUT IN1 PACK II II OATOUT I	CUM = 0.0	171.03> 22 DEN = 0.0 1J = JJ • NDFACK NOTE 23 EBEGIN DO LODE 90 K = 12, MDFACK 90 K = 12, MDFACK 90 K = 12, MDFACK
					;	EC 11 DATUT(1) : CUM
20,011-2) NOTE OF	CALCULATE COMULATIVE PELCE USTRIBUTION	1 TRUE		OHUCFLOAT	MUTL OF PECIN CLUDY PECIN CLUD	NU11 OB N1 N 1 1 N P A C C C C C C C C C C C C C C C C C C

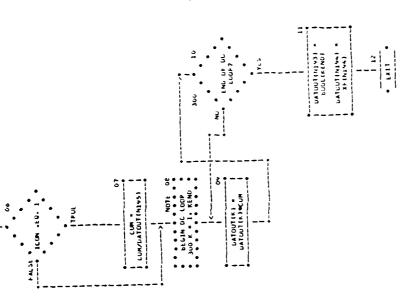
Name	KEND #	5	DIMC = XP(MIV);
UNIVERSICAL			NI XF /ND PACK
10	DINC OF LOAT A	¥0	DINC&FLOAT
13 - NCPALK		-	(NOPACK)
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Null use the property of the			
Null us Null		7	:
Null			
Cum = 0.0 1		,	20
NOTE	310w		١.
1	CIN UL	•	1
WOIL CON	* * * * * * * * * * * * * * * * * * *		
13 - 34 - NCP4CK 100 100 13 - KHD 13 - 34 - NCP4CK 100			1 NOTE 21
100 J 1 1 6440 101 J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,	20 21
Natt of Natt of 11 11 12 13 13 13 13 13	* NCPECK	٠.	;: ;:
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			-
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DATUMILIAN - LUM NOTE NO	SECTION OF COURSE OF THE PROPERTY OF THE PROPE		:
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MG		į -	
VOW = CUM + 1 NO	- ho	•	1 NOTE 23
171.01>1 171.01>1	#773 =		tern Do
171.01> 100	٠ (•	K = 1, MUPACK
10 100 10 10 10 10 10 10 10 10 10 10 10			- ;
100 to 10	• •	•	
1713.01 1713.01 1713.01 1713.01 1713.01	27 ******		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
171.067			XF (K + JJ)
1 100 - 1	I CNC LF		
15 1.00 × v 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	•	2	
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100 LT.		2	
111.00	1001		
	•		
101.00			
171.54	•		

CHART TITLE - JURNOLINE CUNDISCUATAIN, XF.)



| MOTE OF | MOTE CUM/DATOUT(N195)

LATOUTK) = | UATOUTK) = |



1 cum = 1.0/cum 1

CONTINUE

CHART TITLE - NON-PRUCEDUKAL STATEMENTS

CUMMLN/BLK1/8K1 (500)

PIMENSION DATAIN(1), DATOUT(1), XF(1)

EQUIVALENCE (PKI 39), TLIM

(BK1(40), BLIM

), (5K1(41), NIXF

(BK1(42), NCPACK

1. (EK1 (43), NDPACK

UATA N193,N194,N195,N196/-3,-2,-1,0/

9-155

- SUCHECTIVE NIDECETA, Y, M. P.	
- SPINEES IN	
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Chan Islee	9-156

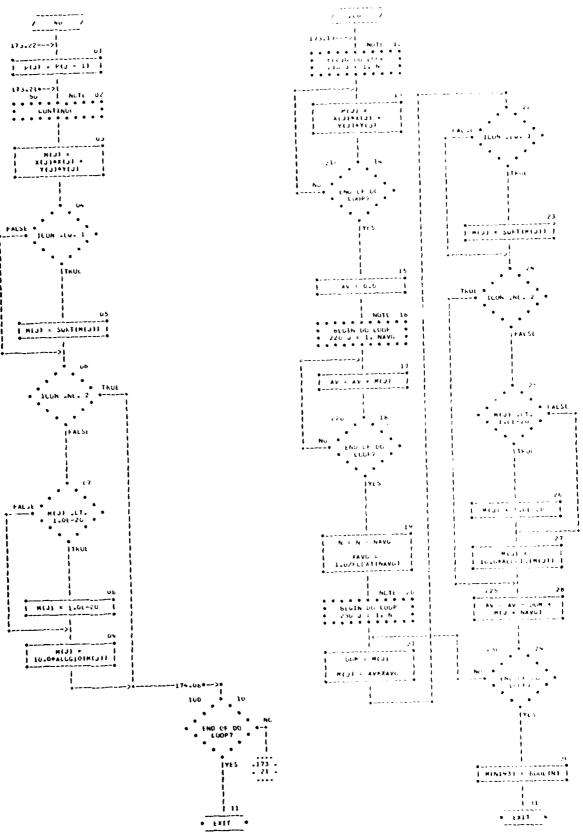
	1 P (MIVO) 0.00 1 1 P (MIVO) 0.00 1 100 1 0.00 0.00 0.00 0.00 0.00	**************************************	23 (14) (14) (17) (18) (18) (18) (18) (18) (18) (18) (18
36.114-7 NUI 10 1 NU	14 15 1 DBEKK H H H H H H H H H H H H H H H H H H	13 DOLKX H 1 1 1 1 1 1 1 1 1	10 17 17 17 17 17 17 17 17 17 17 17 17 17
35.15>1 60.4 0 10.0 1.0 10.0 1.0 113.12:			
38.00> 10.00 + 2	100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36-21> MCT: VA ENEY 10.0 - 0 10.0 - 0	173.12 10 10 38.13> Mult. 06 Mult. 06 Mult. 06

0.006 P(J) = | Aleayanz(Y(J), | X(J)) 1 26 1 26 1 30.02:

MFMAS = 1

35-13--->} | MUTU | MUTU | WENT | WEN ACON = A 173.12

CHART TITLE - SUBSCRIBE - REPUBLATARAPI



9-157

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CHAKI IIILE - NON-FROCEDURAL STATEMENTS

9-158

CCMMUN/SLKI/ FK1(500)

EUDIVALENCE (SK11 361, NAVG)

DIMENSION X(1),Y(1),M(1),F(1)

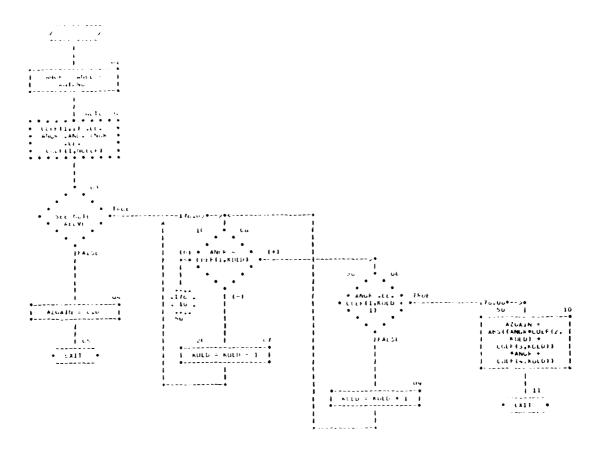
KEAL M

UAIA NESS.N196.N4/-3.0.4/

UAIA AI/57.24578/

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AUNTHOCEOURAL STATEMENTS

CUMMONZAZFATZ CORFINGETS STALLER COMEN /BERT/ FRIESUOF Calibration Cantano, Helitti DATE P. LUZZZ

9-159

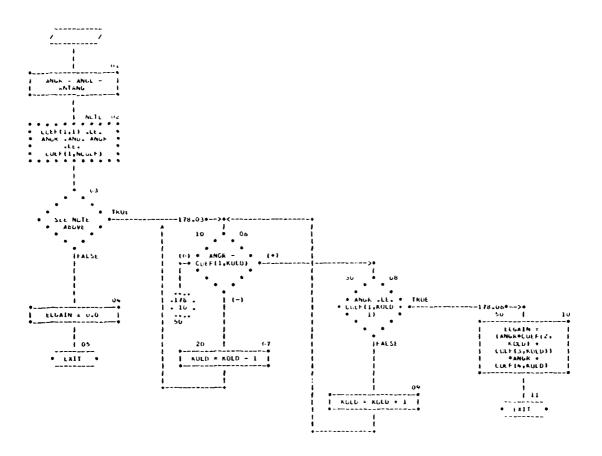
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1 1

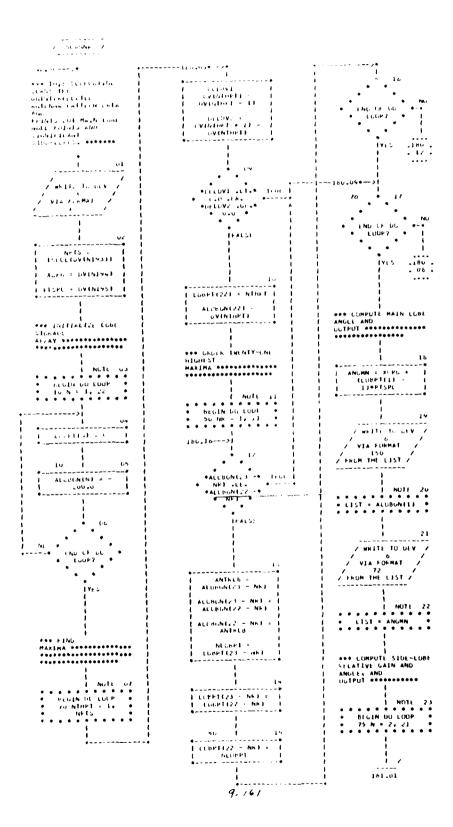
The second secon

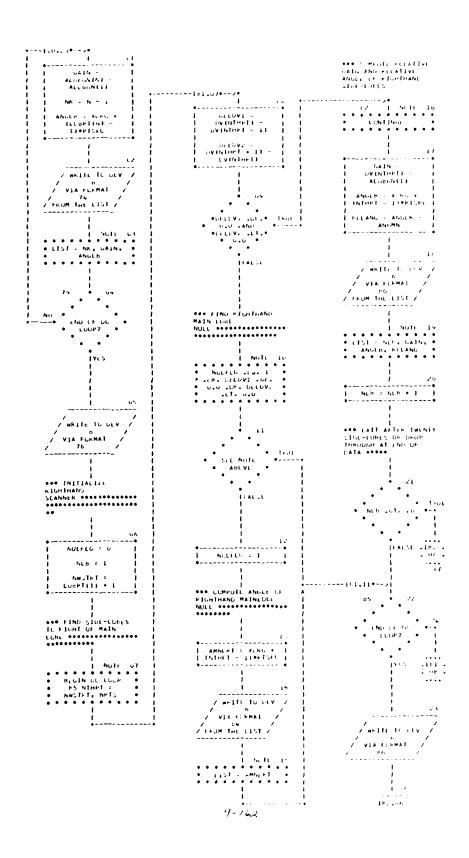
CHART TITLE - FUNCTION COMMINIANCE



NON-PROCEDURAL STATEMENTS

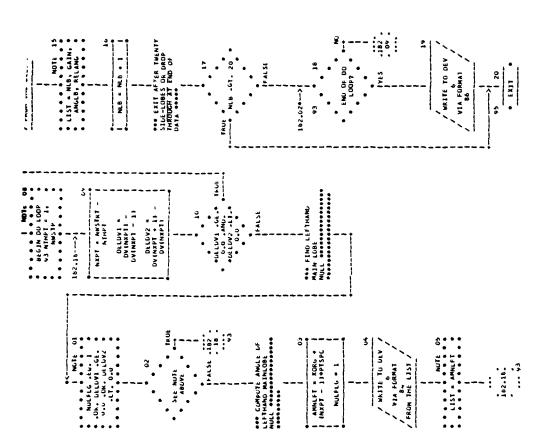
CUMMUN/ELPAT/ CUFF(4,75),NCHEF CUMMUN/BLKL/ BF1(506) EUULVALENCE (ANTANG,BK1(1~1) DATA RICCZI/





Chaki Titte - Suchouline Scannelov)

	OOO COMPUTE RELATIVE CAIN AND RELATIVE ANGLE OF LEFTHAND SIDE-LUBES O	90 NDTE 12 90 NDTE 12 CONTINUE	er Taylor	ANCES TORS OF INVESTMENT OF IN	RELANG " ANGEB -		/ WRITE TO DEV /	/ VIA FURMAT / / B9 / / FRUM THE LIST /	1204	S, GAIN,	ANGL	<u>.</u>	NE NE + 1	FER THENTY SIECE LOSES OR DROP	THROUGH AT END OF DATA ****	•	TRUE	•	I PALSE	- <u>-</u> -	66	
1E1.210->->	, tb	LEFTHARD SCANNER Descenses terressessesses	1 NWSTKT = LOBPTILL	NESTO " NESTRI - 1	NULLC = 0	*** FIND SIDE LUBES	TO LEFT OF MAIN LOBE CONCENSIONS	1 MO16 08	BEGIN DU LOOP 43 NTHPT = 1,		182.16>1	NXPT = NWSTRT - 1	0kL0v1 =	DLLOV2 =			• 66 LUVI . 64. • THUE I	-		dvi s	MAIN LUBE NULL CONFESSIONES	
											I NGTE OI	 NULFIG .tu. 1 .Ok. DELDV1 .Gk. # .o.u .Ok. DELDV2 * 	. LI. 0.0	20	• SEE NUTE •• • ABUVE • •	1 PALSE . 187 .		PL TANK TERMINA	LEFTHAND MINLOBE NULL sessessessesses	30	I AMMLFT = MORG + I	1 100,FL6 = 3



9-163

CHART TREE - NUMBER CLUDERE STATEMENTS

DIMENSION LOBPT(22), ALIBEN(22), DV(1)

VAIA N143.N144.N145.N196/-5.-2.-1.0/

ELUIVALENCE (NPTS, XPTS)

FLEMAT (1HU/47X, * * * * ANTENNA LUBE SCHANER * * * * / / /

FLAMATIC THE MAIN LIBE GAIN IS "+F13-71 11:37

PURMATIC THUS 34X. *LUCATION AND RELATIVE GAIN OF MICHEST 20 SIDE L UECS! / 35% 'KANK', 17%, fill. GAIN', 16%, 'AMME' / 58%, (DB)', 16%, *(DEG 1" // 35X, *MAIN *, ZUX, *U.U *, 17X, F15.71 7

FULMAR (36X# 12, 18X# F15.7, 14X*F13.7) 7

FORMATITHISTIX, "MAIN LCCE NOLL AND FIRST TO SIDE-LOBES TO RIGHT OF 35

(ABLVE) MAIN LORE"

9-164

/JEX+"KANK",13X,"KEL. GAIN",15X,"TRUE ANCLE",15X,"KEL. ANGLE"

/ 57X+*(bu)**16X**(beb)**16X**(beb)* /)

UNMATICSOX, *RAIN LUSE *, 4X, *** NULL ***, 15X+F13.7) 4

FURMAT (34X,13,2(15X,F15,7)) 3 3

PRIMARI 43X, THE FULTHER SIDE LUCES ON THIS SIDE! I

FURMATITHO/22X, MAIN LORE NULL AND FIRST AT SIDE-LORES TO LEFT OF ž

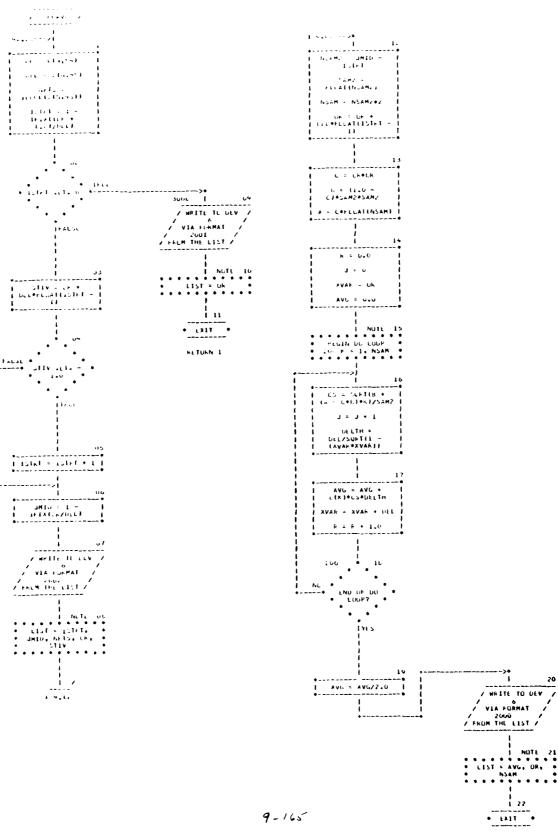
CELLUM MAIN LONE"

/JENGTHON OF SEXTEN GEINT SETTEUR GEVER THE ANDLE

7514, (5L)*, 16X, (5EC)*, 15X, (6EC)* /)

F. FRAT (29X+ 15+ 3(15X+F15+7))

.



LNAK! IIILE - NUM-PRUCELUKAL STATEMENTS

CIMENSÍCN E(1)

LAIA N. 43, N194, N145/-3, -2,-1/

UCE FURMAT(IH ,3115,2E15.5)

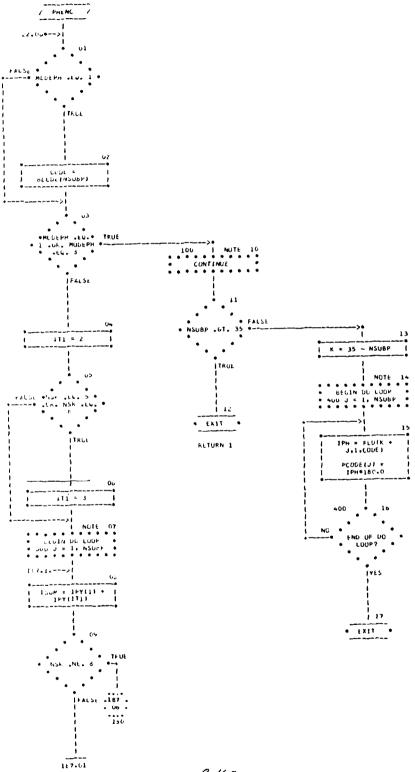
FURMAT(1H . AVG=".E15.7" UK=".E15.7" NSAM=",110) 2000

FURMATOH . THE ANTENNA PATTERN IS NOT DEFINED OVER ALL VISIBLE S Too?

PACE....AVERAGE POWER EVER ALL SPACE NOT DETERMINABLE.,// UKIGIN=

1.15.71

CHART TITLE - SUBROUTINE PHENCEST



9-167

LNAKT TITLE - SUBKLUTINE PREMCES)

1 0 WAG 1 1 15UM # C 15b. u4-->0 1 15um = 15um + 1 1 19t(+) + 19v(5) FALSE SUM . E.C. 2 1508 = 1 FALSE * 15UM .EU. 4 ----FALSE 15

| PCUUE (3) = | Ibc.001PY(1) I IPVINSH + 13 =

1 Petro - Detre - 1 NOTE OF STREET O PCUNE (3) = 122,001PY(1) D = MDK = 0

07/11/70

CHART TITLE - NUN-PRUCEDURAL STATEMENTS

CLMMCN/BLK2/ 812001,PCGUE13G01

EQUIVALENCE (8(96), NSUBP), (8(185), MUDEPH), (B(184), NSE

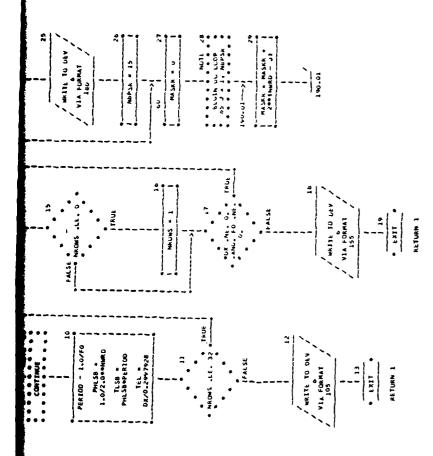
) . (8(186), IPY(1))

(8(194), CODE

DIMENSION IPY(8), BCCDE(13)

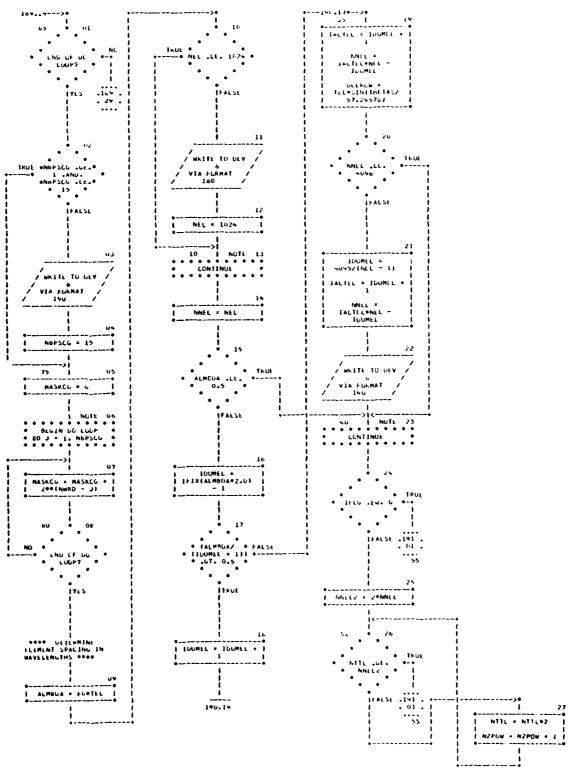
UATA 6C0DE/U0.01.01.02.62.00.015.00.60.60.6355.60.0312/.N1/1/

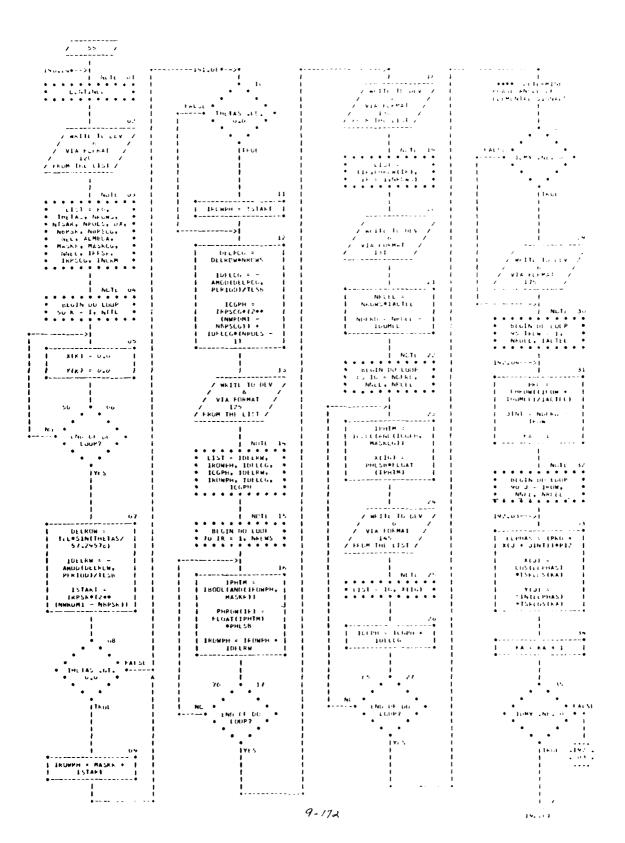
| NUTE 28 | NUTE 28 | SECTION | NUTE 28 | SECT I MASKK . MASKR . WHITE TO DEV MEL = NTSAKONKUMS MASKR . U NPULS - 1 NbP5k = 15 FALSE . PPULS .LE. U IDUMEL . 0 IACTEL = 1 TRUE SNBPSR .GE. 9 140.01 NKUHS = 1 * HAGNS -Lf. 32 CONTINUE . 47.09--->| | MOTE 03 | 0 0 0 0 0 0 PERIOD - 1.0/FO NTTL & 200N2POM WRITE TO DEV Tet = DX/0.2947928 TLSB -PHLSB - PHLSB - PERTUD / ANTPAT / I N2POM = 8 FALSE . NZPOW .LT. 8 N2 = N2PCH IFLG = 1 CART IIILE - SUBRUMINE ANTARTIK, F. e. THIS SUBMOUTING CONTROL OF THE ANALYSIS OF THE Well- It bey 0 = 1747 / ANTARY / 42.14--->4



the second second

CHARL TELL - CONDUCTOR MINKERS

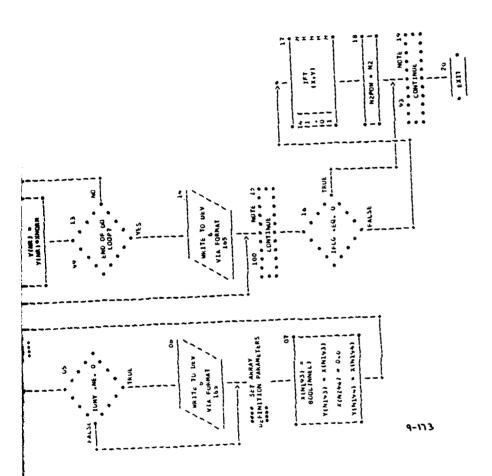




CMAKT TITLE - SUBRGUTINE ANTARY(X,Y,+)

																																						-	!=
•	80	J XINISS = j I ALMBDA/FLGAT ;	(IACTEL)	VINISS = XINISS		* * * ;	•		* * *	PALSE			7	XNORM #			+ 99 NA TANEL.		->	-)	KONED = 1	YINK) =	- VINRI PKNORM		1 00	•••	FND OF DO	206	•	- AES	 		1 / WAITE TO DEV /	/ VIA FORMAT /	-	9	CONTINUE	-	•
141.35		/ #KITE TO DEV / 1	/ NIA PURMAT /	FROM THE LIST	 (151 = 1		141.35	40 • 03	•••	* ENC OF UN \$-	4 6007	- [1455 - 191	 	*0 * 5*		END OF BU 4-	Ì.		VES - 191 -			3	•	FALSE .	•••	• •	TRUE			/ #k17¢ 10 0cv / +	V1A FU 162			UEFFINITION PARAMETERS !	~-	100	DODE CONT.

AUTOFLOW CMART SET - FWO/SCL RADSIM



LHART TITLE - NUN-PRUCEDURAL STATEMENTS

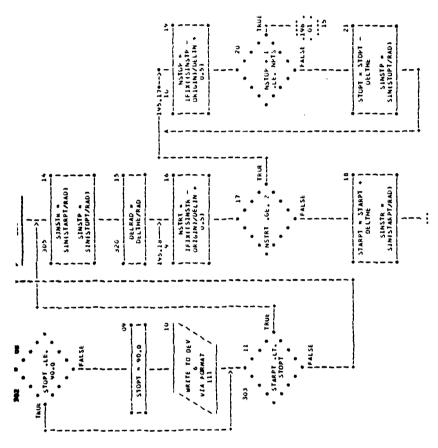
DIMENSION X(11,Y(1),PHROW(32) EWULVALENCE IBELL 3), FO J. CERTI 21). IDMY (BK11 76), NTSAK), (BA11 77), DA IRKIE 761. THETAS 1. (BKIL 79). NEUNS (BK11 BO), NEPSCG J. (BKIE 61), IMPSCG ١. (8K1(82), N6PSR 1. (6K14 851. 1KPSR ١, (BK14 84), INURM F. IBAIT 651. NEULS [BK11 11. N2PCW UATA NWKD.NWRDM1/31.30/.PI2/6.2631853/ UATA N143,N144,N145,N146/-3,-2,-1,0/ FURMAT 1º NUMBER OF ROW CONTROL PHASE SHIFTERS EXCEEDS MAXIMUM. P 105 KOBLEM TERMINATED. 1) 110 FURMATEINI//50X, ** * * * ANTENNA ARRAY GENERATOR * * * ** ///) FURMATE * . I. . * X(J)=".E12.6. Y(J)=".E12.6. ELPHAS=".F10.6) 115 126 FURMATI/* *,T4,*FREGUENCY-GHZ = *,E12.0,T30,*PUINT ANGLE DEG = * +6.3, T68, 'NR PSHIFT ROWS = 1,12, T100, 'NK TIMSCAN SECS = 1,14 / * '.T+.*START PULSE NR = *,14,T30,*ACT LLEM SPC-MTR= *,612.6,T68 +"NR BITS PSHIFTER= "+12+T106+"NK BITS CUNGEN = "+12 / " "+T4+ 'NK ACTIVE ELEM = ',14.T36, 'ACT EL SPC-HVLTH= *,E12.6.T68, *PSHIFTER MASK = *,012,T100,*CONTR GEN MASK = *,012 / * *,T4, *TUTAL NR ELEM = *.14.To8. *PS RNDOFF CONTR = ".II.TIOG. CGEN KNOUFF CONT= ".II / T4. *NURMALTZE CONTR = *.T11 125 FURNATE * .T4. *DELTA ROMEINTEG)= *.110.130.*INIT ROPH(INTEG)= *. 110.T68.*DELTA CG (INTEG)= *.110.T100.*INTT (GPH(INTEG)= *.110/ * *. + . DELTA RUN (OCT) = *. U12. T30. *INIT RUPH (UCT) = *. 012. T66, *UELTA CG (GCT) = *,012,710G,*INIT CGPH (UCT) = *,012 / 1 FURMATE *1*,52x, *ROW PHASE-SHIFTER SETTINGS*//T44, *ROW*, 18X, 130 *PHASE SETTINGS*,//(T45.12.T56,1PE15.71) 145 FURMAT(1H .T43.14.756.1PE15.7) FORMAT(ING.50X.*CUNTROL GENERATOR PHASE OUTPUT*//T42.*SECTION*.10X 131 .ox. 'SECTION'.16X, 'PHASE SETTINGS'//) 135 FURMAT (1H1//44x.** * * * PHASED ARRAY PATTERN GENERATOR * * * ** 1111 FURMATE INCOMPLETE PLOTTING DATA IS AVAILABLE DUE TO ARRAY SIZE E IMITS "/" ANY PLOT PROVIDED WILL NOT INCLUDE ALL VISIBLE SPACE.") FURMATELM .14.* DUMMY ELEMENTS HAVE BEEN INSERTED BETHEEN ACTIVE E 156 LEMENT PAIRS IN ORDER TO INCREASE AVAILABLE "/" PLOTTING DATA.") FURMAT ("DELEMENT SPACING (DX) AND/UR CENTER FREQUENCY (FO) HAS NO 155 T BEEN PROPERLY SPECIFIED. PROBLEM TERMINATED. ") FURMATI' NUMBER OF ANTENNA ELEMENTS EXCEEDS ARRAY LIMITS (1024)* 160 NEL SET TO 1024.*) 105 FURMAT EFOTHE OUTPUT ARRAY HAS BEEN NURMALIZED TO THE NUMBER OF AC TIVE ARRAY ELEMENTS.*1 FURMAT (1H1.42X. OUTPUT ELEMENTS (PHIUR TO ANY NURMALIZATION) FORMATE' NUMBER OF BITS IN ROW CONTROL PHASE SHIFTER IS EXCESSIVE. 100 NEPSK HAS BEEN SET TO 15.11 FORMAT (1H1) 165 FURMAT ET NUMBER OF BITS IN CONTROL GENERATUR IS EXCESSIVET NOPSC 190 G HAS BEEN SET TO 15.11

CUMMUN/8LK1/BK1(400).TSKLOS(100)

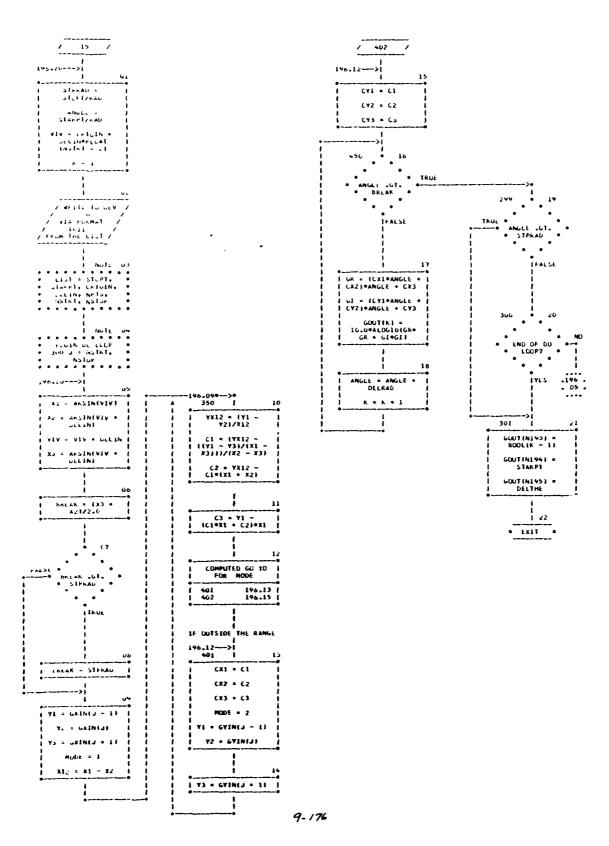
9-174

CHART HILL - SUBROUTINE PLIFMT(GAIN.GVIN.GOUT.0)

		1
	STOPT = -90.0 STOPT = -90.0 STOPT = VO.0 ST	114,746 # (14,74
1800L(GENNIN) 00 00 00 00 00 00 00	1 STARPT = - 90.0	1
The submitted of the su	Variable To the Variable Varia	



9-175



0.711.73

CHART TITLE - NUN-FRUCEDURAL STATEMENTS

	CCMMCN/8LK1/8K1(500)
	DIMENSION GXIN(1), GYIN(1), GOUT(1)
	EGUIVALENCE (BK1(21), IOMY), (BK1(33), DELTHE),
	(BKI(34), STARPI), (BKI(35), STOPI)
	DATA N193.N194.N195.RAD/-321.57.29578/
114	FURMAT("OAN ANGLE INCREMENT WAS NUT PRUFERLY SPECIFIED FOR THE OUT
	PUT ARRAY. EXECUTION WILL NOT BE ATTEMPTED.")
300	FURMATI "OSTART POINT WAS DEFINED BELCW HORIZON. START POINT HAS B
	EEN REDEFINED TO -90 DEG.")
111	FORMAT(*OSTOP POINT WAS DEFINED BELUW HOKIZUN. STOP POINT HAS BEE
	N REDEFINED TO 90 DEG.")
109	FURMAT(OSTARTING POINT SPECIFIED AS GREATER THAN OR EQUAL TO END
	PLINT. ALL AVAILABLE VISIBLE SPACE WILL BE INTERPOLATED. *)

FORMAT(1H ,4E15.7,3110)

1011

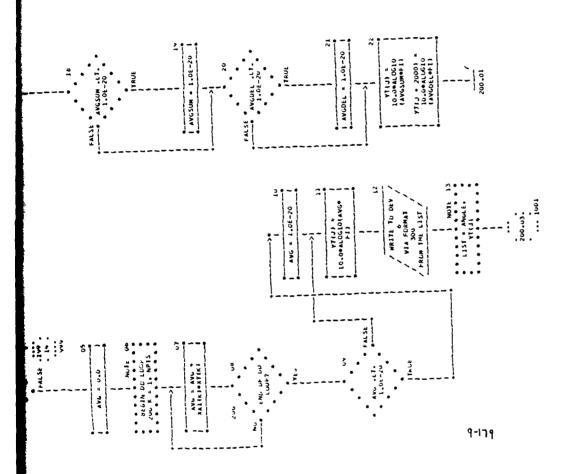
08/11/75	AUTG
CHART TITLE - SUBRILUTINE	CHART TITLE - SUBRUMINE TSRPATIKT.VT.KAI.HAZ.HR.YR.*!
9-17	
8	

MATE TO DEV	100 1 10 10 10 10 10 10 10 10 10 10 10 1	
47.11—> 47.11—> 6.11—> 6.11—> 6.20— 6.20— 6.20— 6.20—	10 10 10 10 10 10 10 10	
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	30
1	70 7
THICKNEYS TO THE THICKNEY TO THE THE THICKNEY TO THE	. <u>.</u>
CCAVC . CLAVC	12 78.5700)
KTITADI	ALTERNATE RETURN
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40	
•	
NC * 100 1	MPTS =
	1 IBUOL (XA1 (N1431)
•••	F DECEMBER 1
, , , , , , , , , , , , , , , , , , ,	/F11 -
	- IFIXEXTENISAL
~ -	
00	- 1
CCAVC =	/ WRITE TO DEV /
10.00ALUGIO	/ VIA FO
	/ 701 /
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CHANT TITLE - SUBHILUTINE TSRPATENT, WAI, WAZ, XR, YR, 0)

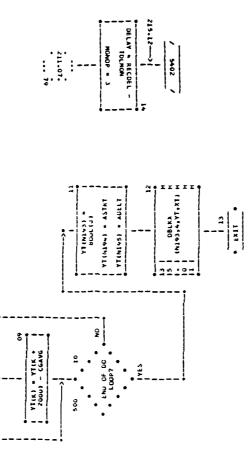
100.04—> AVGSUM = 0.0 AVGBL = 0.0 A	1010 17 1000 1	FALSE * AVESUM .17. * 1.0E-20	FALSE NUCLEL .17. 1.06-20. 1.64-20. 1.6
			AVG = 1.0E-20
100 / 100 /	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AVE = 0.0 NUIE OS SEGIN OC LOOP COU K = 1: NPIS AVE = AVE AVE = AV	NU END OF TO



100.13—>| 100.1 | 03 1 NOTE 02 WRITE TO DEV / VIA FORMAT / VIA FORMAT / FAUM THE LIST / XTIK) = VTIK) --1 - 0 = 0 199.22->•

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YI(K) = YI(K + 2000) - CGAVG



| XI(K) = YI(K) - | |

FALSE MODISR .EQ. 8

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CHART TAFEE - NEN-PROCEDURAL STATEMENTS

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	E COIVAL CAUCE	-	1 4 40		5				•	
		_	EK1 (570.	EKI (57), ANGLE) • (0 k l (3+1.), (ohi(54), ASTRI	-
		J	9K1(351.	BKI(35), ASTCP).(oK1(33),	OK1(33), ADELT	-
	•	_	BK1(4).	. (BK1(4), SIMEW		cK1(11	. (3	1.(cki(ilo), MCDTSR)	
	UIMENSIGN XT(1),YT(1),XA1(1),XA2(1),XK(1),YK(1)	11,	(10)	X41()	1),XA2(1),	XF.(1)	,Yh(1)			
	LATA N193,N194,N195,N196/-5,-2,-1,U/	4	[4861]	-/961	10.1-6.2-00					
ioi	FURMAT(* K= *, 110)	—	(3)							
307	FURMAT (* CGAVG=*, E13.5, "WATT-NANUSECUNUS IN UB")	VG=	, £13,	7M. 65.	TT-NANUSE	CLNUS	27	•		

9-181

FURMATI " THE REGUIRED NUMBER OF FREG. DOMAIN SAMPLES",

• cxceebs 4005*)

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FCKMAT(" ANGLE=",F12.5,"SUM ENEKGY=",F12.5,

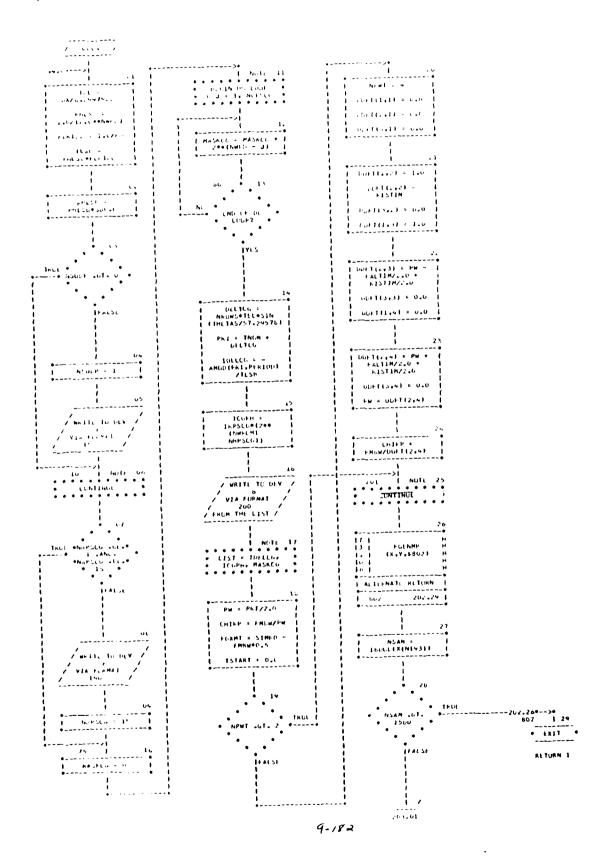
* DEL ENERGY= ", F12.5)

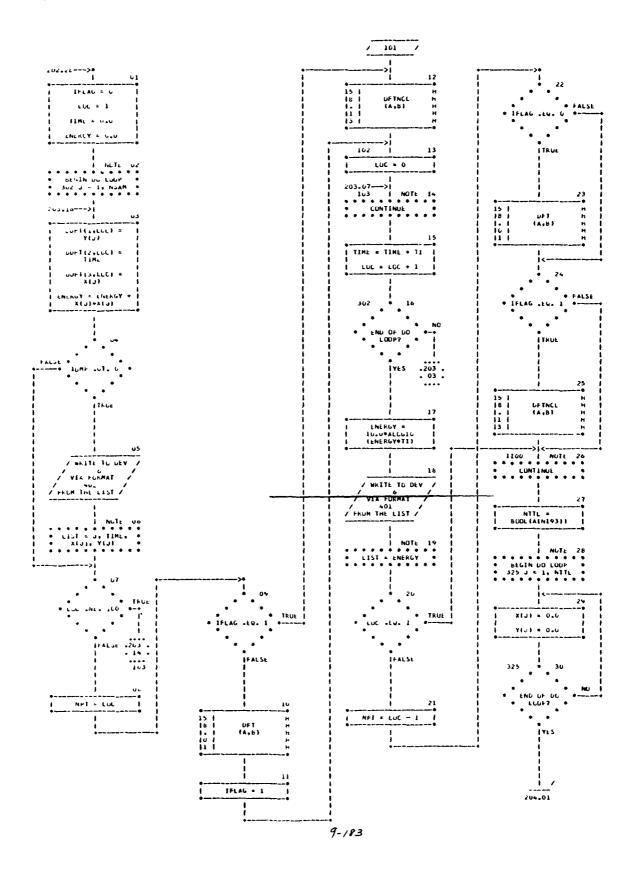
FURMATIIH , ANGLE=",E13.5," ENEKGY=",E13.5]

500

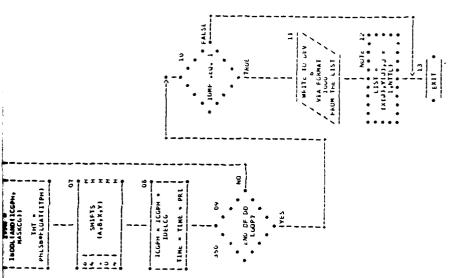
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,8KI(12)), 5)),(II obil 311, (SIMFU , ERIL ENDIVALENCE (FO

, BKIL 7711, (THETAS, BKIL 7611. Š (NRUMS + 6KIL 791)+(NBPSCG, 6KIL EU))+(IKPSCG, RKIL 611)+

,6K1(£9)), (NSUEP , BK1(ES)), (TNLM

FK1(90)), (FUXMI , BK11 91)), (CH1RP , BK1(92)).

*bk1(941), (TSTAKT, BK1(1001), ¥d.)

, 6K 1 (2001) PERTURENTALINET . FK1(5311, (RFM1 ,6K1(150)), (THI (FMEW

010

(KISTIM, EKI(98)), (FALTIM, SKI(99)), (IDMF, BKI(21))

"(11MLSB.bk1(1151),(1NGRM ,bK1(91)

DIMENSION X(1)+Y(1)+A(1)+E(1)

LAIA 1,143,N144,N145,N146/-3,-2,-1,0/

DATA NWKD:NWKDM1/31,30/;U/2.14746.56EU9/

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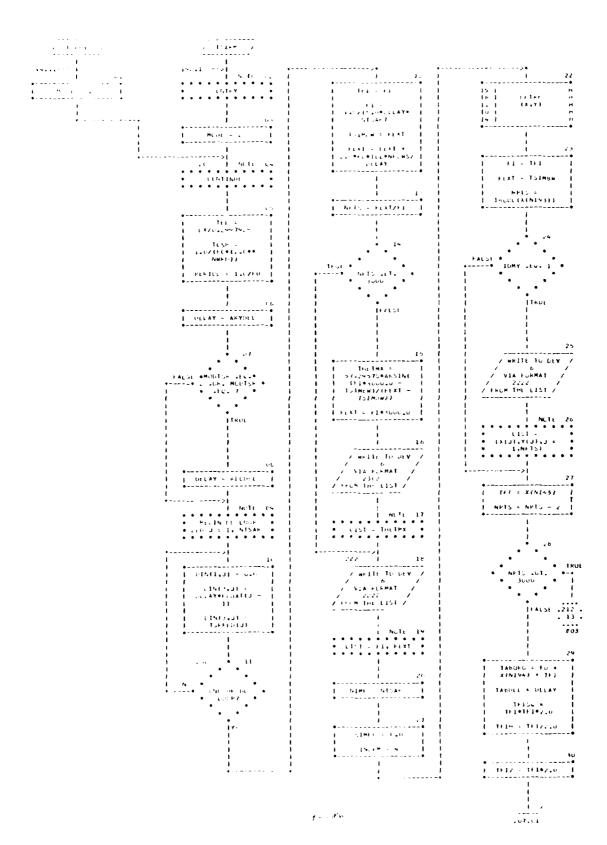
DEMNICE THE NUMBER OF BITS IN CONTROL OFF PRISE SHIFTER SET TO 15 3.40

FURMAILE IDELEGATIONS, TOURMATICIZIE MASSAGGATIONS 30, PLEMAILS DESSIGN TIMESSILLS. MAGESSCLOOPS PEACE SELLS.

FURMAT (* ENERGY=*+E13-5+* WATT-NAMES, CETHIS*) 101

FURMATCIN . Sc 15. 1) 1000

9-185



AUTOFLOW CHAKE SET - FWO/SCL KADSIM

CHANT UITLE - SUBROUTINE TSANY(X.Y.XR.YR.0)

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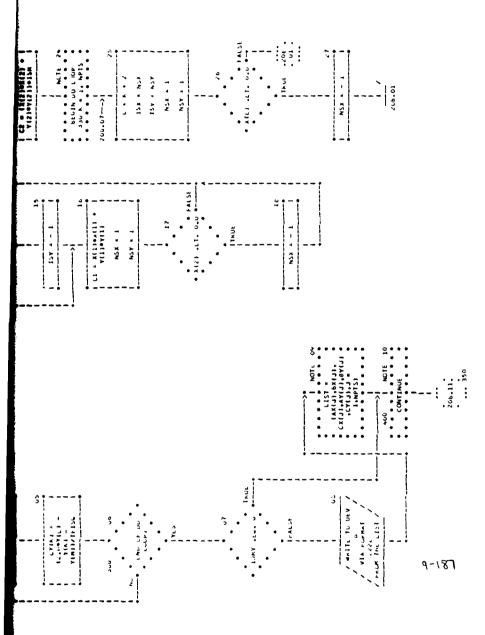
207-02

+415t	PALSE 13X NL. * **********************************	V(2)=V(2)=X(2) 1
ZGT.01————————————————————————————————————	FALSE * 17 TRUE	

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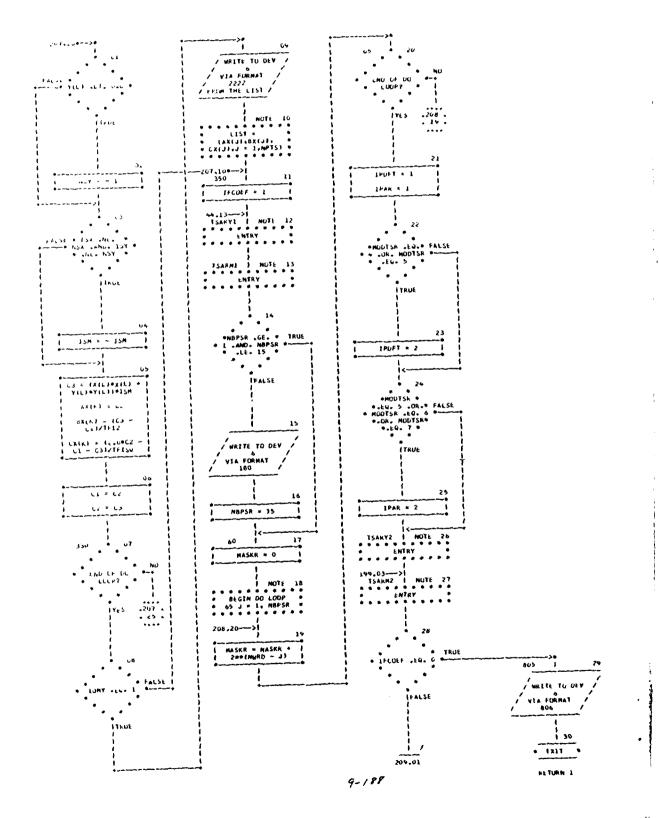
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CHART TITLE - SUBRIGITINE TSARY(X.Y.XR,YR.*)



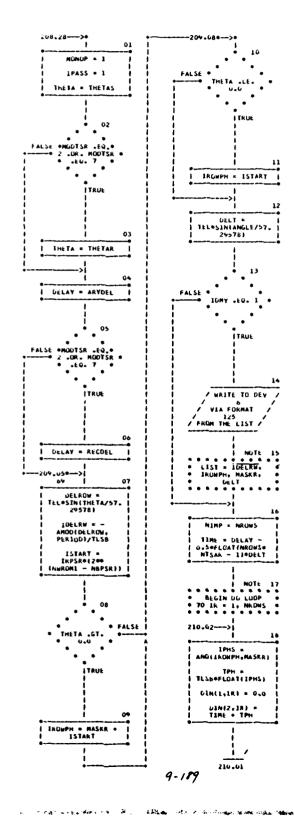


CHART TITLE - SUBMOUTINE TSARYIX, Y, XR, YR, *)

*<-----

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210.20-->
3110 | 21
| DELAY = RECOLL + | 211.07: MUNUP = 2 | MOTE 16 | LECTRO | LOGO | LECTRO | LOGO | LECTRO | LOGO | LECTRO NOUT = 16COL(X(N193)) * (L)YeT(J)Y IPASS . 1 -216.09#-># |FALSE intarn = IntaPh + AUELNW UNIVERSITATION 11Mc = 11Mc + U.C. [DED # UTHIS PALLE PASS SEC. 1 INCAM # + Cr 1kt

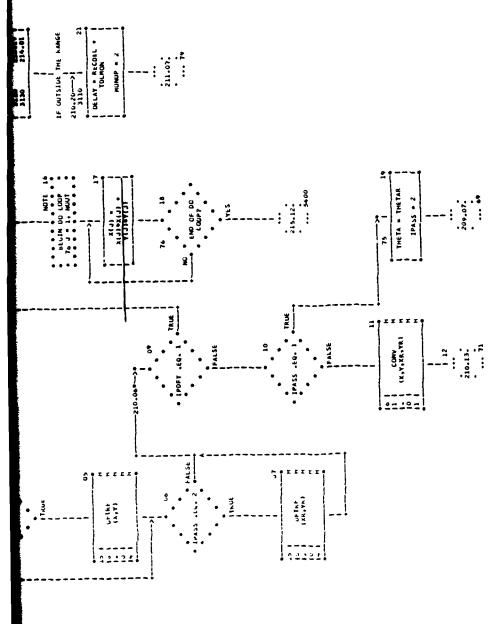


CHART TITLE - SUBROUTINE TSARY(X,Y,XR,YR,+)

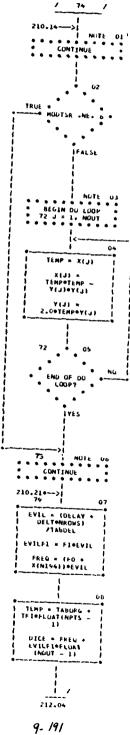
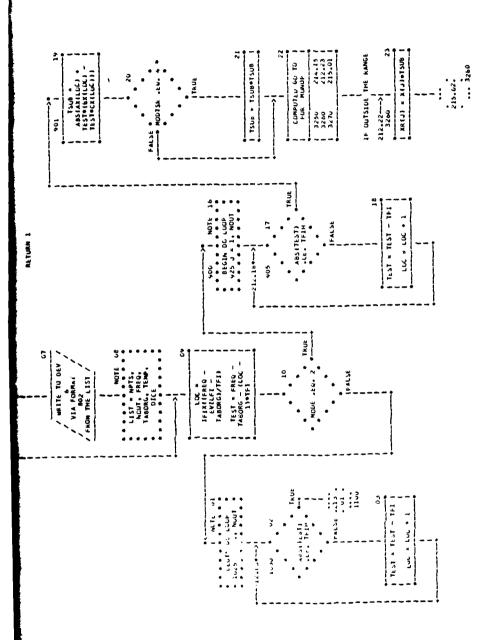


CHART TITLE - SUBRUUTINE TSARY(X,V.XX,VR,0)

TSUB = ABSIAXILUC) + 1 TEST*(bX(LUC) - 1 TEST*(bX(LUC)) | 1 TEST*(bX(L 1 TSUR - TSUB-TSUB COMPUTEU GU TU FUR MUNUF FALSE . BODTSK .tu. 4 106 | MOTE 14 | NOTE 12 | NOTE 12 | LIST = NPTS | | NOUT FREQ | | TABONO TENP | | DICK | / WAITE TO DEV / VIA FURMAT / 802 / FROM THE LIST / / WAITE TO DEV / VIA FORMAT / BOZ / FROM THE LIST / * ABS(TEST) · tall · RETURN 1 206.28-->1 V-21..160-> MOUE . EG. 2 FRE ALT. FAUE | MOTE CE | LIST & NPTS. | LIST & NP / WAITE TO DEV / VIA FORMs / 802 / FROM THE LIST / TEST = FREG = TABORG = (LOC = 1)eTFJ FALSE 10HY .EG. 1 . 01Ct .GT. .. TEMP LOC = IFIX(FREQ -EVILFI -TABGRGI/TFI) **IFALS**£ FALSE 211.06---> Acother 1 MATE OF 26.71 (-- 0 C 1 2 7 1 . - - - -



210.20-> 210.20-> 10 LAV = RECOLL - 1 TOLHUN HOMNP = 3 11.07	
	TEMP = X(J) 11 Y(J) 12 Y(J) 12 Y(J) 13 Y(J) Y(J
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CHART TITLE - MERCUTINE TMARTE, V. RR. VR. 01

/ 0626 /	(K(J) = (K(J) × (K(K) × (K(K) × (K(K) × (K) × (K(K) × (K) × (K(K) × (K) × (K) × (K(K) × (K) × (K) × (K) × (K(K) × (K)		
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	IONY -EG. 1	TRUE

| MAITE TO DEV / MAIT / WRITE 10 UEV / / VIA FURNAT / 2222 / / FRUM THE LIST /

L157 ...
(XK(J), YR(J), J. ...
(XK(J), YR(J), J. ...
1, NOUT) | NOTE OB | | NOTE

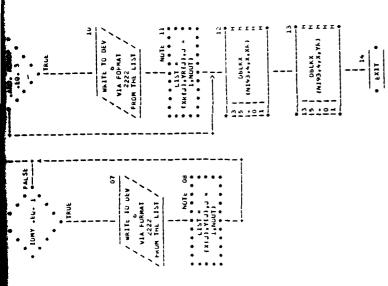
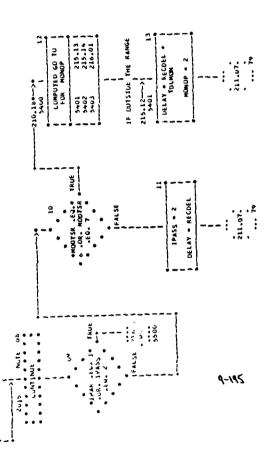


CHART IITLE - SUBRUUTINE ISARVIX,V.XR.YR.0)

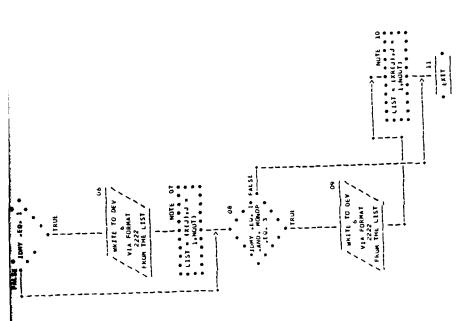
	5400 32 CUMPUTED GO TU + GK MONGP	1 5-01 215-13 5-02 215-14 1 5-03 216-01
	2	**************************************
1	•	STAR - EC. 3 - TRUE - OR. 1PASS



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| NOTE O7 215,64-->| Nult Of | Source | Null Of | Null XH(J) = 1 ABS(1EMP - XR(J)) TEMP = X(J) X(J) = TEMP + XK(J) LUGP?
LUGP? FALSE TOMY -EQ. 1



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UIMENSION X(II),Y(I),CX(30001,AY(3000),EY(3000),CY(3000)

UIMENSION XK(I),YK(I)

UIMENSION TSRFED(160)

BUING FACE (GINGS-C7) TSEFFULL)

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ر 4	F.I	IUMY	č×	RAURS	1 k F S K	F E x T	AI II	
(6K1(3),	(BK1(11), FI	(BK16 21), IUMY	(BK1(77), UX	(BKIL 7Y), AKUHS	(BK1 (£3), 1KFSK	IBKII 41. FEXT	(6K1(200), NIMP	
CHUIVALENCE (6K1(3), FO								

CUDIVALENCE (EKIETTY), ALCDELINEALETTY), THETAKI,

(8KI(116), MUDISK), (SKI(185), TLEMLM)

.(INUKM , BK11 5))

UATA NIY3,NIY4,NIY5,NWFL,NWKLMR,IRCURKZ-3,-1,-1,31,30,0Z

... FLEMATI' THE MAXIMUM ALLUMAELE ANGLE FOR ENUADSIDE 15",F15,7)

TERMATCH .6620.6)

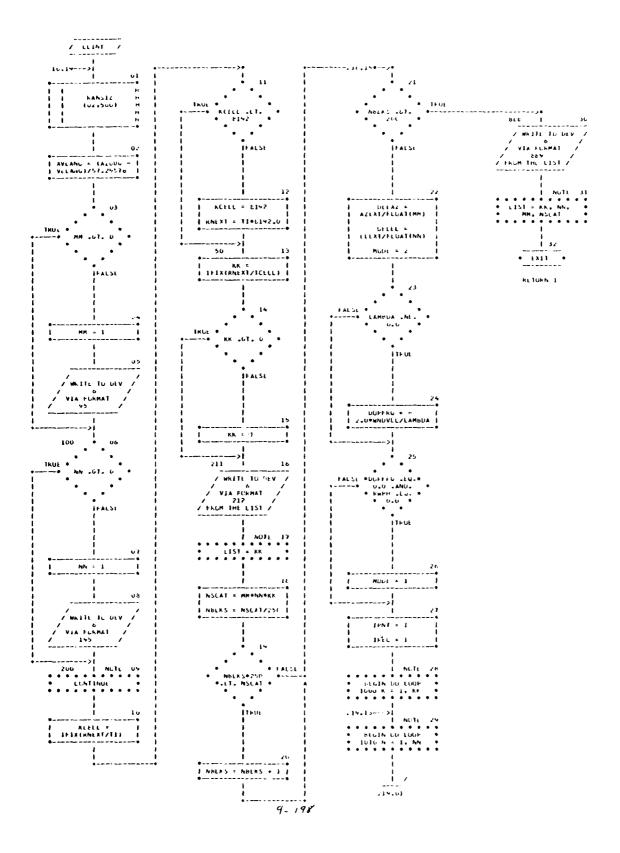
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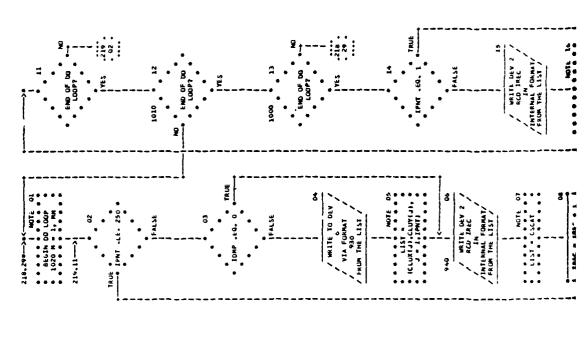
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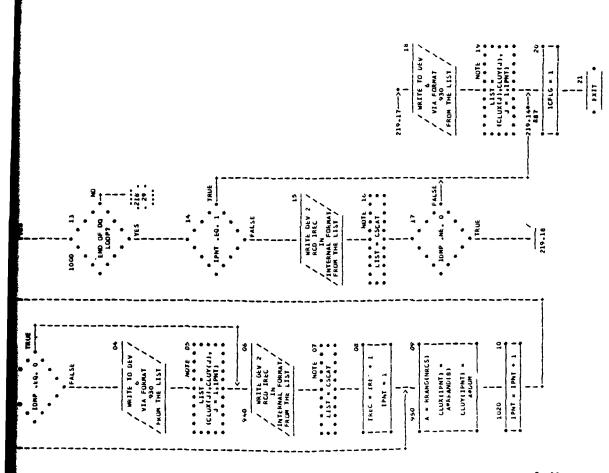
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CHAIT TITLE - SUBROUTINE CLINITES





TITLE - NUR-PROLEDDRAL STATEMENTS

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P.A.	9-2-0

CUMMLN/BLK1/ CLUX(250),CLUY(250)

COMMUNISTREY BR2(500) COMMONISTRENT TOME(8), DUM

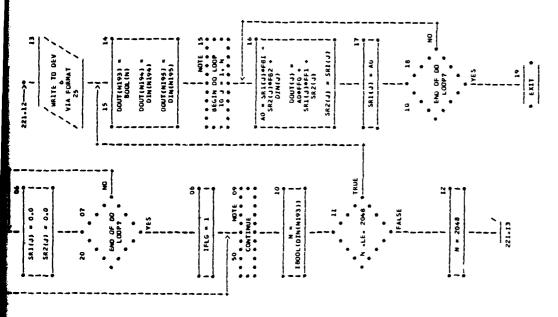
- a to make all the grant ware

	DIMENSION CSCAT(SOC)	
	E-UIVALENCE (CLUX(I), CSCAT(I))	
	EUGIVALENCE (BK2(13), LAMBDA	1. (ok 2 (14), TCELL),
	(BK2(21), 10MP	1. (EK 2 (46). NRCS).
	[EK2f 47], NEWPH	1. (5K2(48), RWPH 1.
	IBK21 441, MNDVEL	1. (BK2(50), VELANG 1.
	(EK2(51), RNEXT	1. (6K2f 52), RNOOG 1,
	(6K2(53), AZEXT	1.15K21 541. AZ000
	[BK 2 (35). MM),(bK2+ 56), ELEXT),
	(6K2(57), £L600	1.(bk2(5b), NN),
	(6K2(120), NK	J. (BK2(121), NBLKS),
	(8K2(122), MUDE).(BK2(1,3), DELAZ).
	(PK2(124), DELEL	1.16K2(125), XVEANG 1.
	(BKZ(126), 1CFL6	1. (EK2 (1271, CUPPKS)
	(6K2(128), KLELL),(5K2(12), TI)
	KEAL LAMBUA	
÷	FURMATCHO, THE VARIABLE MM HAS ELEN SET TO 1	EN SET TO A * 3
145	FURMAILIHG." THE VARIABLE NN HAS BE	BIEN SLT TC 1 * 3
.1.	FURMATCHO. THE VARIABLE KN HAS BIEN	in SLT TC+,15)
ر د د	FCAMATEIN .6t20.61	
, 90	FUFFAIT IN of The PRODUCT UF AKE "plage Mise", is, " MM="plage" IS TUO	*** NA=**14, MM=**14, 15 TUO
	LABOL, ", 110," THIS JUB WILL TERMINALE"	15.1

CHART TITLE - SUBRUUTINE MITELTICIM, DOUT)

AUTOFLOW CHART SET - FWG/SCL RADSIM

MOTE 20 MOT	
	221.12—>+ 13 WRITE TO DEV VIA FORMAT 25 15 15 15 15 15 16 17 18 18 19 19 10 10 10 10 10 10 10 10
## 160 P P P P P P P P P P P P P P P P P P P	84
MIELI / MIELI / 100 100 100 100 100 100 100 100 100 1	



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MTIFLT(DIN,DOUT)		
¥		
CHART TITLE - SUBRCUTINE		
1		
TITLE		
CHART	d-905	

	,	1007(1) = 1007(1) = 1007(1) = 110
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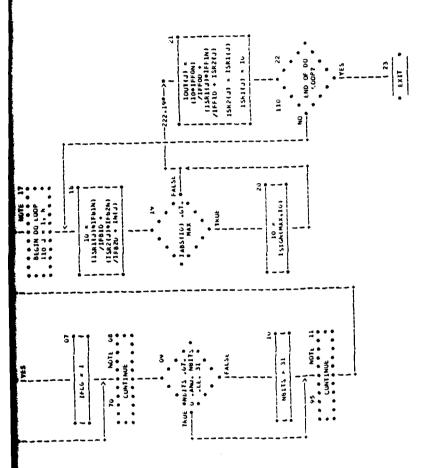


CHART TITLE - NON-PROCEDURAL STATEMENTS

CDMMON/BLK1/BK1(500)

DIMENSION DIN(1), DOUT(1), IN(1), 16UT(1), SR1(2046), SR2(2048),

15K1(2048), 15R2(2048)

EQUIVALENCE (SRI(1), ISRI(1)) , (SR2(1), ISR2(1))

UATA N193,N194,N195,N196/-3,-2,-1,6/

UATA IFLG/0/

• • • • • • • • • • • • • • • • • • • •			:
1. (6KI(6E), FFO	1, (8KI(70), FBI		1, (BKI(161), 1FF0D
-	-	-	
EGUIVALENCE (BK1(21), IDMY	(BK1(69), FF1	(BK1(71), FB2	EQUIVALENCE (BK1(160), IFFON

-	-	:	-
IFFOD	IFF10	16810	IF820
1. (BKI(161), 1FF00	1, (BKI(1631, IFF10	1,(BKI(165), IFBID), (BK1(167), IFB2D
)•(),(
IFFON	IFFIN	IFBIN	IFB2N
BK1(160),	(BK1(162), IFFIN	(BK1(164), IFBIN	(BK1(166), IFB2N
J	J	_	-
EQUIVALENCE (BK1(160), IFFON			

_	
BK1(169), NBITS	
_	

FURMATI " TOO MANY POINTS IN INPUT ARRAY ... FIRST 2048 PROCESSED!

25

| NOTE 12-

1 1800L(DIN(N1931)

C1 = DIN(J) .
SK1(J)*FBCK
DOUT(J) = SA1(J)

11 TRUE | TRUE |

UNTER TELLE - SUBRUITINE SWPIMTEDIM, UTUTT

11 2	DOUT(N)93) =	DOUTINISAL + 1	DOUT(N195) = 1	100	1 DO 4	. N.T # 7 0 7 *	16	C1 = DIN(J) + f	COUNTES & SREEDS 6	SRI(J) = C1		10 + 17		* LOOP? *	IVES	 - 	. FXIT
30	116 - 1	50 Walt 09	* * * * * * * * * * * * * * * * * * *	21	I FBOOL (DIN(N1931)		 		* N .Lt. 2048 ******	•	FALSE		21	N = 2048			

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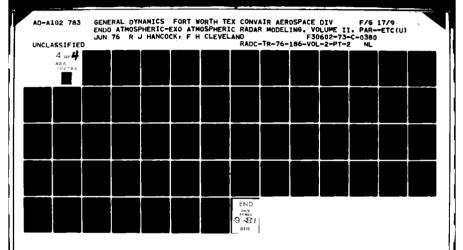


CHART TITLE - NON-PROCEDURAL STATEMENTS

COMMON/BLK1/BK1(500)

DIMENSION DIN(1), DOUT(1), SR1(2648)

EQUIVALENCE (BK1(21), IDMY), (BK1(75), FBCK

DATA N193,N194,N195,N196/-3,-2,-1,0/

DATA IFLG/0/

35

FURMATI . TOO MANY POINTS IN INPUT ARRAY....FIRST 2048 PROCESSED.)

08/11/75 TABLE OF CONTENTS AND REFERENCES ÇAŅU 10 PAGE/BGN NAME

AUTOFLOW CHART SET - FWD/SCL REFERENCES (SOURCE SEQUENCE NO. AND PAGE/BOX)

FURTHAM MUDULE RADSIM

CHAKT 11TLE - INTRUMOTORY COMMENTS

CHAKT 111CE - PROCEDURES

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2 42.

10003071 (non sor) (nrenn)

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04/11/75	-	TABLE OF CONTE	CONTENTS AND RE	A EFE RENCES	à	AUTOFLOW CHART SET	MT SET - FI	- FWD/SCL			
CARD IU	PAGE / 80X	X NAME			REFERÊNCES		(SOUNCE SEQUENCE NO. AND PAGE/BOX)	E NO. AND	PAGE/BOX1		
(000410)	9.02	36	10003481	1.15							
(000*50)	•	101	330	11.0							
(000423)	4.07	1011	(000451)	6.05							
(62400)	*0**	1102	(000434)	9.1¢							
[100430]		701	(000424)	6.11							
(1000437)	7.17	5	987	17							
(moseus)	***	105	930	6.17							
11000031	10.01	100	330	6.17							
(contro)	10.03	901	330	11.8							
(0.1450)	16.05	113	330	8.17							
10004543	10.01	107	333	8.19							
1600001	30.04	707	333	8.19							
[004000]	14.11	203	333	8.19							
(100,100)	10.13	877	333	8.19							
(100.00)	10.15	504	134	8.19							
(100,000)	10.17	1200	10004001	10.14							
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				11-12	(000447)	11-14	(000506)	12.05	(000511)		(0005131
				13.10	(000250)	13-12	(000538)	13.04	(000541)		(000544) (000559)
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(1000438)	11.04	213	13,	9.19							
(24*090)	11-11	214	333	9.19							
(44)0001	11.13	215	333	8.19							
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(1001725)	19.25		(000724)	19.23				
(47,000)	10.02	¥	334	••01				
1427-001	20.03	435	956	•.01				

cf/11/30	-	TABLE OF CONTENTS AND REFERENCES	NTS AND REF	ERENCES	AUTOFLOW CHART SET - FMO/SCL
CAKO 10	PAGE/BOX	X NAME			REFERENCES (SOURCE SEQUENCE NO. AND PAGE/BOX)
(1000732)	20.05	436	339	4.01	
(CMU735)	20.07	437	339	10.0	
1060738)	20.09	9**	339	••01	
(00-741)	26.11	7	339	10.0	
100,744)	20.13	151	339	10-6	
(1, Cum)	51.07	75,	334	10-6	
1000 1001	20.17	453	334	4.01	
1 (CC (CO))	* T* 07	* 5 *	335	9.01	
(1001-750)	70.53	455	334	4.01	
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Lougher)	21-03	\$0.	334	10.	
1407000)	43.65	*64	466	10.4	
(LILEOTE)	11.07	44-1	(477,000)	21.11	
(ATIMA)	41.04		(1111)	21.07	
(c22)	21-15	701	339	4.01	
10007701	71.17	7	334	10*5	
10007753	21.14	704	334	4.01	
(mn/let)	21.10	103	334	4.01	
1001/101	41.15	105	(0000+13)	60.6	
1000737)	21.20	\$115	10000111	4.03	
(100,702)	21.72	****	(000417)	٠٠٠٥	
lew 7901	10.27	\$0\$	(10000)	6.03	
(Topon)	40.77	975	10000171	9.03	
(couside)	42.ve	503	(17000)	60.6	
10000111	22.12	306	(Occu417)	÷-03	
totoppo	22.10	\$0\$	(15000)	9.03	
(100.821)	42.50	516	100001	9.03	
[100.084]	75.037	1114	(0000417)	6.03	
Hura. D		215	(11-000)	4.03	
1006223	10.02	200	330	11.8	
(5£3mn)	23.02	110	330	8.17	
(wedow)	23.03	111	330	8.17	
10000351	23.04	114	350	8.17	
(00000)	\$3.05	\$11	330	8.17	
16uc c 371	23.60	116	330	9.1	
10000361	10-67	1117	330	6.17	
Lowest	50.6.	118	330	6.17	
10000411	43.04	3~	133	8.19	
12020201	23-16	502	484	6.19	
[cances]	73.11	907	353	3.14	
(channe)	23.1c	10.7	133	9.14	
(caspan)	11.6		333	8.19	
tou. 649)	13.14	2.58	13 5	6.19	
(1,000,00)	73.13	31.	181	8.21	
(wash)	73.10		751	17.9	
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TABLE OF CINTERES AND NEFFERINCES

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FEFERENCES (Submer Sections No. AND PAGE/60

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(001239) 39,0° 115 (001194) (001243) 39,0° 116 (001194) (001252) 39,0° 117 (001194) (001252) 39,11 118 (001194) (001252) 39,11 203 (001197) (001253) 39,18 203 (001197) (001264) 39,23 203 (001197) (001264) 39,23 203 (001197) (001264) 39,23 203 (001197) (001264) 39,23 203 (001197) (001264) 39,23 203 (001197) (001264) 39,23 203 (001197) (001276) 39,23 203 (001197) (001276) 39,23 203 (001197) (001277) 204 (001197) (001277) 205 (001197) (001278) 207 201197 (001274) 207 207 (001167) 207 20119	(100) 235)	35.61	11:	10011541	37.12
(0012-3) 94.07 110 (001104) (0012-3) 34.04 117 (001104) (0012-3) 34.11 118 (001104) (0012-3) 34.13 203 (001107) (0012-3) 34.13 203 (001107) (0012-3) 34.21 204 (001107) (0012-3) 34.23 205 (001107) (0012-3) 34.23 205 (001107) (0012-3) 34.23 205 (001107) (0012-3) 34.23 207 (001107) (0012-3) 34.21 207 (001107) (0012-3) 206 (001107) (0012-3) 207 (001107) (0012-3) 207 (001107) (0012-3) 207 (001107) (0012-3) 207 (001107) (0012-3) 207 (001107) (0012-3) 207 (001107) (0012-3) 207 (001107) (001107)	10015361	34.04	115	15611671	37.12
(0012x) 39,0x 117 (00119x) (0012x) 39,11 118 (00119x) (0012x) 30,11 201 (00119x) (0012x) 30,12 202 (00119x) (0012x) 30,21 203 (00119x) (0012x) 30,22 203 (00119x) (0012x) 30,23 203 (00119x) (0012x) 30,03 30 (00118x) (0012x) 30,03 31 (00118x) (0012x) 30 30 (00118x) (0012x) 30 30 (00118x)	10012433	34.07	110	10011541	37.12
(001247) 39.11 118 (001194) (001256) 39.13 201 (001197) (001252) 39.13 202 (001197) (001254) 39.21 203 (001197) (001264) 39.23 203 (001197) (001264) 39.23 203 (001197) (001264) 39.23 203 (001197) (001264) 39.23 203 (001197) (001264) 39.24 203 (001197) (001270) 39.24 203 (001197) (001270) 39.23 207 (001197) (001271) 40.01 210 (001197) (001271) 40.02 212 (001187) (001271) 40.02 212 (001187) (001274) 40.02 212 (001187) (001280) 212 (001187) (001280) 212 (001187) (001280) 212 (001187) (001280)	(461545)	34.04	117	10011441	37.12
(001250) 39,11 201 (001197) (001252) 39,12 202 (001197) (001254) 39,21 204 (001197) (001264) 39,22 205 (001197) (001264) 39,22 205 (001197) (001264) 39,27 207 (001197) (001264) 39,27 207 (001197) (001270) 39,27 207 (001197) (001270) 30,01 210 (001197) (001271) 40,01 210 (001197) (001274) 40,00 214 (001187) (001274) 40,00 214 (001187) (001274) 40,00 214 (001187) (001274) 40,00 214 (001187) (001276) 40,00 214 (001187) (001276) 40,00 214 (001187)	17-2100)	34.11	116	10011441	37.12
(001252) 9-4.15 202 (001197) (001253) 3-4.18 203 (001197) (001264) 3-4.21 204 (001197) (001264) 3-4.22 205 (0011197) (001264) 3-4.23 205 (0011197) (001264) 3-4.23 207 (0011197) (001264) 3-4.24 207 (001197) (001270) 40-0.1 210 (001197) (001271) 40-0.1 210 (001197) (001274) 40-0.2 212 (001197) (001274) 40-0.2 212 (001197) (001274) 40-0.2 212 (001197) (001274) 40-0.2 212 (001187) (001274) 40-0.2 212 (001187) (001274) 215 (001187)	10012501	34.13	707	(001101)	37.14
(w125) 3×11 203 (001197) (w125) 3×21 204 (01197) (w126) 3×22 205 (011197) (w1264) 3×27 206 (001197) (w1264) 3×27 207 (001197) (w1264) 3×27 207 (001197) (w1272) 3×31 209 (001197) (w1272) 40,01 210 (001197) (w1273) 40,02 212 (001197) (w1274) 40,02 214 (001187) (w1274) 40,03 214 (001187) (w1274) 40,04 214 (001187) (w1274) 40,04 214 (001187) (w1274) 40,04 214 (001187) (w1274) 40,04 214 (001187)	(001252)	39.15	202	(161100)	37.14
(wal25b] 39.21 204 (vol197) (wal26c) 39.23 205 (vol197) (col26c) 39.23 206 (vol197) (col26c) 39.27 207 (vol197) (col26c) 39.27 207 (vol197) (col27c) 39.27 208 (vol197) (col27c) 39.21 209 (vol197) (col27c) 40.01 210 (vol197) (col27c) 40.01 210 (vol197) (col27c) 20.0 212 (vol197) (col27c) 210 (vol197) (wal27c) 20.0 214 (vol197) (wal27c) 20.0 214 (vol197) (wal27c) 20.0 214 (vol197) (wal27c) 20.0 214 (vol197)	10012551	35.16	503	(141100)	37.14
tool26.1 39.2.3 26.5 tool1971 tool22.2 39.2.3 20.6 (001197) tool26.4 39.2.7 20.7 (001197) tool26.6 39.2.7 20.8 (001187) tool27.0 40.0 20.6 (001187) tool27.0 40.0 21.0 (001187) tool27.1 40.0 21.0 (001187) tool27.2 40.0 21.0 (001187) tool27.1 21.0 (001187) tool27.2 21.0 (001187) tool27.3 21.0 (001187) tool27.4 21.0 (001187) tool27.8 21.0 (001187) tool27.8 21.0 (001187) tool27.8 21.0 (001187) tool27.8 21.0 (001187)	(101258)	35.21	204	16011931	37.14
(001202) 39,25 206 (001197) (001204) 39,27 207 (001197) (001206) 39,23 208 (001197) (001201) 39,23 209 (001197) (00127) 40,01 210 (001197) (00127) 40,02 212 (001197) (00127) 40,02 212 (001197) (00127) 40,02 214 (001197) (00127) 40,02 214 (001197) (00128) 40,03 214 (001197) (00128) 40,01 215 (001197)	(001200)	39.43	507	(1611100)	37.14
(001264) 39,27 207 (001197) (001268) 39,28 208 (001197) (001270) 40,431 209 (001197) (001271) 40,64 310 (001197) (001273) 40,64 31 (001197) (001274) 40,00 212 (001197) (001278) 40,00 214 (001197) (001278) 40,00 214 (001197) (001278) 40,10 245 31	(001205)	34,25	20%	(161100)	37.14
(001264) 3v.21 208 (001197) (001270) 3v.31 20v (001197) (001270) 40.0.1 210 (001197) (001272) 40.0.2 12 (001197) (001274) 40.0.2 212 (001197) (001276) 40.0.2 214 (001197) (001276) 40.0.2 214 (001197) (001276) 40.0.2 214 (001197)	1001264)	34.27	20.7	1741190)	37.14
(001268) 39,31 209 (001197) (001270) 40,41 210 (001197) (001272) 40,42 312 (001197) (001274) 40,40 212 (001197) (001278) 40,40 214 (001197) (001284) 40,40 214 (001187) (001284) 40,41 245 (001187)	(001200)	35.25	508	11411001	37.14
(001270) 40,41 210 (001197) (041272) 40,43 .1 (001187) (401274) 40,40 212 (001187) (401276) 40,40 214 (001187) (401276) 40,40 214 (001187) (401276) 40,40 245 (1001187)	(001208)	34.31	80	10011471	37.14
(0x1272) -0.5.5. (0x1197) (ux1274) -0.5.0. 212 (0x1197) (ux1278) -0.5.0. 214 (0x1197) (ux1278) -0.5.0. 214 (0x1197) (ux1107) -0.5.0. 215 (1x1107)	10121001	10.04	210	(001141)	37.14
(401278) 40,00, 214 (401197) (401278) 40,00, 214 (401197) (401278) 40,00, 214 (401197) (401278) 40,10, 245 (401197)	(0v1272)	*C*O*	•	(1001100)	37.14
(601197) 114 (601197) (601197) (601197) (601197) (601197) (601197) (601197)	(462141)	3.0	217	16411001	37.14
(001278) 40,04 314 (001147)	(91216)	40.04	**	(141100)	37.14
(00126u) 40-1) 745 (001197)		*0.0*	3.14	1001141	37.14
		1.5	\$1,	(1001)	37.14

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10.2223	•	11011177 37.14	
(artaa)	_	10011-73 37.14	
17671001		feetly71 37.14	
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10013041		1001171 37.14	
(one tog)		10010441 51273	
1001301		10016531 52.07	
(015100)		(1002147) 37.14	
17151001	47.5 VO-14	10011471 37.14	
[+][10]	41.11 Can	(10011471 37.14	
10101 0)	1615 231	10011971 37.14	
(21610)	707 31.15	(totaly?) 37.14	
(m) se (m)		10016-51 51.24	
1136100)		10010541 52.05	
(\$2\$Too)	41-14-533	10011471 37.14	
(<20100)	_	_	
17.5.1001	_	10011971 37.14	
(428170)	063 43.44	10011971 37.14	
115 5 100 1		10011571 37.14	
(refon)		10011971 37.15	
(<<<100)		10011471 37.14	
[dec.[w]		~	
(146 [44]		10612331 42-114	
(001 544 j		(001/01) 37.16	
(601347)		10012011 37.16	
1545 100)		10012011 37.16	
(1961-1)	firsto sur	_	
10(43)		_	
1555 LW)	47=40 307		
17 55 1001		(0012011 37.16	
(not too)	405 47474		
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0767		_	
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11181001	•	_	
(41,575)	45.63 403		
icus (en)	*11* 50* ;*	_	
(25)	43401 405		
(001374)	40-64	_	
11151001	43.11 407	(vul2us) 38.01	
1234(31)	45+13 40B	(001203) 36.01	
tent tool	40.15 404	(wiles) 38.61	
		10077001 SP-11	

(678197)	41.24	ž	10011411	37.14
(Azelan)	11.6	525	(001141)	37.14
14261-01	;	·	11001	37.14
11,41001	, , , , ,		11001	37.1.
(ceetha)	47.14	٠, عه	(001177)	37.1.
(ccc too)		,	(100)	37.14
faction	10.10	1.1	16012611	37.16
leak sant	; ;	5.90	14622341	42.04
1.46 1001	,	205	(10/100)	37.16
(645 141)		Sus	(102100)	37.16
(045 100)	*1 - 14	چي، د	10015011	37.16
(1551 3)	410	643	(102100)	37.16
104,353	31.75	300	(102100)	37.16
(425 LW)		Luc	(107100)	37.16
17551001	****	200	(107100)	37.16
(was load)	****	304	(102100)	37,16
(101391)	37.00	516	[107100]	37.16
ngc?	*/*/*	215	(1021201)	37.16
0252	1.30	513	1001001	37.16
(405 JW)	.6.3.	401	(001503)	36.01
11151001	43.64	şo.	10012031	36.01
(5)5(40)	£9.63	403	(60/1/03)	38.01
1425 1031	42.00	*11*	(607100)	36.61
116, 1001	10.00	50+	(607100)	36.01
(475190)	40.04	404	(001/03)	36.61
(175100)	****	403	(001500)	38.U1
(11)0631	* 1 * 6 *	* ve	[001203]	36.01
10013-51	42415	, ,	(no)(n)	38.61
11.51.10.11	11.0	110	(607100)	30.01
, 100	,,,,	413	(001203)	10.86
1141 100)	D	*14	10012031	36.01
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(cvc two)	45.65	*1 c	(cartoo)	38.01
1245 1001	~	4.17	(602700)	38.01
(+46 (44)	45.24	31.	(007500)	36.01
11041011	44.14	*1,	10025001	38.01
(604400)	5	2	16021001	36.01

AUTUFLUW CHAFT LET - FMU/SCL	REFERENCES ISLUNCE SELLENCE NO. AND PAGE/BORI
TABLE OF CONTENTS AND REFERENCES	AGE/BUX NAME

UB/11/75 CAMU 10	TAE PAGE/BUX	TABLE UP CONTENTS UX NAME		ANU NÉFERENCES	AUTUFL REFEKENGES
2800		7.	(607700)	36.01	
(14141)	4.4.(15	77.	(001203)	36.01	
(404100)	1.0.	2,	(1001203)	38.01	
(11+11)	***	\$7.	(1001203)	36.01	
10014131	=======================================	* 2 °	1061203)	36.01	
16014151	£.13	12.	10012031	36.01	
1001411)	44.15	*30	(601203)	36.01	
181+191	44.10	14.30	((1+100)	44-15	
102*1001	**	2430	(001413)	44.15	
1001+25)	97.44	*31	(001503)	38.01	
(001423)	12.44	1431	(001422)	***20	
(62+1~0)	***23	16+5	(001422)	44.20	
(424)	\$2.44	+32	(001503)	38.01	
(92*100)	47.26	1432	(001427)	44.25	
10014301	44.26	2432	(001427)	44.25	
(001432)	45.01	* 33	(1001203)	38.01	
(661433)	45.02	1433	1001432)	45.01	
(001435)	45.04	2433	(001432)	45.01	
(16437)	45.00	434	10012031	38.01	
1001434)	45.06	435	(007503)	38.01	
(1410)	45.10	436	1001503)	36.01	
(691443)	45.12	437	10012031	36.01	
10014451	45.14	438	(001503)	36.01	
(1001447)	45.16	439	(001263)	38.01	
(44+100)	45.16	0	(001503)	36.01	
(164100)	45.20	ī	(001503)	38.01	
1001+531	45,22	2**	(001503)	38.01	
10014551	*5.24	** 3	(001203)	38.01	
1001457)	45.26	\$	10012031	38.01	
145*1001	45.41	ş	10015031	36.01	
(194100)	45.30	3	(001203)	38.01	
10014631	10.44	9	(001503)	38.01	
10014651	46.03	;	(001503)	38.01	
(14)1467)	40.04	450	10012031	38.01	
(00100)	46.07	151	(001203)	38.01	
(12+100)	\$0.04	452	(001503)	38.01	
10014131	46.11	453	10012031	38.01	
19214151	46.13	***	10012031	38.01	
(1001+17)	46.15	455	(0015031	36.01	
(62+100)	4.17	454	(001503)	38.01	
1001	*6.1	457	(001503)	38.01	
10014831	40.21	458	(001203)	36.01	
(584140)	46.23	454	(001203)	38.01	
124170)	40.25	004	10015031	38.01	
(***140)	£.27	7	10017031	30.01	

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(44+100)		0	(001203)	38.01
11441001		7,	(001503)	38.01
10014931		~;	(001503)	30.01
16614551		7	(007700)	38.01
17541001		ç.	(001203)	38.01
145+1001	*>**	9;	10075031	38.01
(100)			10012033	38.03
(64+100)		;	(1001203)	30.01
10014651		ž	1001203)	36.01
(101407)		964	(007700)	36.01
1001-01		151	(001203)	38.01
11241001		452	(007100)	38.01
16741001		453	10012031	38.01
10014751		*	(001203)	38.01
14014773		*55	(001503)	38.01
1644100)		456	(007100)	38.01
{ 1 6 + 1 + 10 +		457	(607100)	38,01
10014831		458	(001703)	38.01
16014851		454	10012031	38.01
1641491		00,	(001503)	38.01
1.61 1901		10+	(007503)	38.01
(100)		79.	(001203)	36.01
(64410)		403	10015031	38.01
(0-1400)		501	(001204)	38.03
184+1001		50,2	(007700)	36.03
(005100)		563	16021003	38.03
1769100)		1711	1005100)	47.05
3540		\$	10012001	38.03
(001202)		505	10077001	38.03
(1001507)		508	10015001	36.03
16031001		506	(0075100)	38.03
11151001		910	(402100)	36.03
(001513)		1115	10012041	38.03
(\$15191)		215	(001264)	36.03
E/ (6.1518)		101	(001100)	37.12

(001203) 30.01

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MEPERENCES ISLUNCE SECUENCE NO. AND PAGE/BOXI 36.10 36.10 36.10 49.20 49.28 50.12 50.20 37.14 37.14 37.16 38.01 38.01 36.01 38.03 38.03 36.01 38.01 38.01 36.61 36.01 36.10 46.35 40.04 10011001 36.10 49.12 061160) 36.16 0011001 36.10 10011001 36.10 50.04 (001160) 36.10 10011941 37.12 36.01 36.01 10.88 1805100) 10012031 38.01 10011341 37.12 10012031 36.01

10077031

48.20 465

1145100) 10015421

46.22 467

16451003 (445100) 10015451 (945100) (001553) (001554) (001562) 10025001 (495100) 100157.1

46-17 404

(001540)

48.18 507

10011003 (0021303) 10012031

46.23 406

48.25 470

*8.28 953 46.32 454

(001203)

48.10 444 46.17 506

10015301

19651001 14651001

10015353

10015341

1002170) (402100) 10012031

16021001

10017031

46.12 412 4 46.14 428 46.15 424

46.13

(001533)

(001703) (061203) 10011001

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36.10

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	10011001	30.10				
	*510	40.04				
	10011001	36.10				
44.15	4270	44.12				
160 11.00	10011001	36.10				
49.23	4330	44.20				
+4.25 458	10011001	30.10				
16.44	0464	44.28				
\$6.01 65%	(001100)	36.10				
\$0.03	0944	\$0.05				
50.04 40.05	(001100)	36.10				
\$0-15	4520	50.12				
50.17 461	10011001	36.10				
50.23	4580	90.20				
50.25 462	10011001	36.10				
50.26 463	(001100)	36.10				
50,27 964	(001100)	36.10				
50.25 405	10011001	36,10				
>0.24 466	(001100)	36.10				
50.30 467	10011001	36.10				
51.01 468	1001160)	36.10				
\$1.02 965	(001100)	36.10				
51.63 470	10011801	36.10				
0241 50-15						
51.05	16291903	97.16				
11.10 471	(001190)	36.10				
11.12 1971						
51.12	(601635)	51.13				
51.17 472	(001100)	30.10	(601305)	41.03	1001314)	41.15
51.19 1972						
51.15	(0010+2)	91.20				
52.01 475	(001100)	30.10	(1061301)	+1.0+	10013201	41.16

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	P AGE / BUX)												7745 (492100)		(0016691 (001701)
1	MO. AND			40-27									34.25		52.11 52.16
AUTG-LLW LMAKT SET - FWL/SEE	REFERENCES (SCUKCE SECUENCE NO. AND PAGE/BOX)			10012461 40.27									1001202) 34.25		\$113 \$2.11 (w16d4) \$2.16
FLUM LMA	s (scuk			40.25	41.13	44.03		43.03	3540 47.04				34.23		\$2.10 \$2.15
P LOV	REFLAENCE			10012441 40.25	10014151 44-13	Zeco		(001371) 45-61	3540				10012601 34-23		(001660) 52-10 (001660) 52-15
E KENCES			\$2.04	46.23	44.11	10.44	***	42.32	2700 43,14	1430 38.23	82.54 0065	47.06	39.21	47.11	47.08 52.14
JADLE LF CENTENTS AND REFERENCES			10010513 52.04	10012421 46.23	1601-131 ++-11	10174033 44.61	(001-11) +4-00	(001304) +2.32	2700	14.30	7700	11051501	(w1258)	(401505)	1001047)
)) 47 37a	NA N	1473		1010	1650	0~1	1040	tesa	1000	1970	3000	1120	1130	1162	2020
41	rate/tok	5 1473	57.00	best loto	52.11 le20	52.1. 10.0	52.13 1040	514 1050	54-15 1000	0401 01.26	\$2.17 1000	52.16 1120	52.1v 1130	52.26 110c	0202 12*74
44/11/35	CAN IL	(Mics)	1 teatural	1,444,001	1114	1-14	1001001	10010741	[ofelw]	(W100/1	feetenal	(24013)	10010001	(601701)	1217121

CHAKT TITLE - NUN-PHICEDURAL STATEMENTS

52.13 52.20

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CHART TITLE - SUBNOUTINE FILTIX, Y)

(001731)	>6.01 FILE	FILT	(196190)	(001381) 43.11-X	(001383) 43.13-X	43.13-X	
1667 1001	\$0.04		10017341 56.02	26.05			
10571001	\$0.05		(001754) 56-15	\$1.98			
(467,100)	56.07		1001742) 56.08	\$6.08			
10-1742)	36.08	932					
10017433	56.04 150	150	10017301 56.05	\$9.05			
10017451	\$6.11		10017501 56.13	56.13			
10671001	56.13 250	250					
(1417)	300	300	10017431	\$6.09			
1754.	301 1541 56.1' 105	106					

CHANT TITLE - NUM-PRUCEDURAL STATEMENTS

CMART TITLE - SUBRUUTINE MEITREIX, Y. *!

1961 1001	\$6.03	Se.ol weifft	10012971 40.23-X	40.23-X		
100,7731	54.00	Seaus WellCP	10012441 40.25-X	40.25-X	10622201 17.07-X	10.11
•	3. 5.	SE.U. WEITHP	1957[00]	*0.27-R	(002222) 77.04-X	17.04
1217131	36.06	^	10011777 58.01	10.84	10017751 58.03	\$8.03
17651	1001 78-31 58-37 400	3	(001763) 58.10	58.10		
(6/2100)	30.1. 300	35.0	10017623 58.08	\$6.08		
14637411	34.11 614	213	(wil87) 58.16	58.16		
1647 (00)	36.14 556	364	10017403 58-17	58.17		
1 (V 1 W 1	58.21		10018211 59-20	94.20		
10019001	>0.46		10016071 59.10	59.10		
		•	10041041	****	10014041 59-11	34.1

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 100173-1
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CHANT TITLE - MEN-PROCEDURAL STATEMENTS

CMANT TITLE - SUBMUUTINE MEJTREEXPOS

(457 (40)	56.01	Se. 01 melific	(001292) 40,23-X	40.23-X				
1622 700)	34.02	SELUZ METROP	(1001294)	40.25-X	K-0022201 77.07-X	X-10.77		
3	36.04	Wt 17MP	19621001	40.27-X	(002222)	17.09-X		
1871 1381	\$8.06	^	(5417100)	10.84	16471001	58.03		
(461 Ta5)	58.17	904	10017631	98.10				
10018231	56.1.	936	12311001	\$6.08				
(1413)	3K.14	999	(1871)	58.16				
16017031	54.15	950	10017501	58.17				
1647 1001	58.21		1001821)	59.20				
(001808)	24.02		(001607)	59.16				
10017951	\$4.03	750	10011001	50.04	10016091	59.11		
(41803)	24.06	750	1242 1991	58.21				
(00100)	10.96	270						
1408100)	34.11	080	10025057	\$0.04				
1218121	\$4.15	275	(001608)	59.05	(001803)	90.45	(001805)	80.46
(001017)	54.15		1001911)	59.13				
[101814]	54-40	265	(001813)	59.16				
10281001	\$4.15	942	(661817)	59.17				
10016211	34.26 2W	200						

CMART TITLE - NON-PHUCEUURAL STATEMENTS

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CHANT 111LL - SUBKUUTINE CFARIVIN. VUUT)

CHANT TATLE - MEN-PROCEDURAL STATEMENTS

1/90	<2/11/70	¥.	4	NTS AND RE	FERENCES	₹.	AUTOFLOW CHART SET - FWQ/SCL	1 SET - FW	125/0		
47	CAND IL	FALE/BUX	X NAME			REFERENCE	REFERENCES (SOURCE SEQUENCE NO. AND PAGE/BOX)	SEQUENCE	MO. AND	PAGE/80X1	
3	(10) 6363	el.ul CON	CCMV	(061258) 39.21-X	39.21-X	(001333) 41.29-X		(003814) lel.16-X	101-16-X	(004986) 210.11-X	-11.012
30	(001838)	20-19	CUNNAP	1001290)	39.23-X						
3	1001001	01.04 b1VA	LIVA	10012021	39.25-X						
3	[001844]	ol.to Attua	ALLOA	10012441 34.27-X	34.27-X	(001335) 42.01-X	42.01-X				
3	(w) brb)	D1.66 1000	Toron	(001837)	61.01	(001840) 61.03	61.03	10016431 61.05	\$0.14		
3	12497771	41.15	37,	(0018*8) 61.10	01.10						
3	(5,187.5)	21.10	202								
3	luctor!	40.,3		10016561 62.01	62.01						
100	10011001	62.63		(468100)	62.03						
3	(ust to:1	, , , , ,	702								
1001	trette (1)	31.50	301	1001804) 62.08	62.08						
1111	INTERI	•		(601843)	62.22						
3	(Michel)	101 101	101	(018100)	62.12						
123	11.187.1	301 41.20	301	10018701	62.12						
33	(Coalou)	64.17 103	103	(UDIRTU)	62.12						
1001	(telete)	ei.ly lus	104	(01870)	62.12						
1:3	(1421-1)	4 7 . 70	\$	10018761 62.14	62.14	10018811 62.16	62.16	(001886)	62.18		
1.33	(celes)	07 7.000	07								

CPART filts - NUN-PROCEDURAL STATEMENTS

CHANT TITLE - SUBRUUTINE SMIFTIX, Y.A. 6)

		(064616) 204.07-X		10.50 (755100)												
x-1€-0+	41-11-X	41.05-X	41.17-X	\$4.05							44.07					
1001300} +0.31-x	f001314) 41.11-X	10013081 41.05-X	(1001321)	(001920) 64.05							1001924) 64.07					
(001298) 40.29-X	(101312) 41.09-X	K-10-17 +1-01-X	*-£1-13	10.40 (114100)	80.20 18841001	\$0.40	10614411 04-13	64.16	04.21	ı	10019151 64.03	94.16	90.50		(001464) 64.21	(001982) 65.07
298)	121	62.0	•	2	2	=	-	_	=		-	-	=		3	821
1001	[no13	(0013	(001310)	141001	1001498	tuc19271 64.09	1061441	(1001953)	(001568)		1001919	(654100)	100161001		1001	61001
	KSH1F1		h SMF TS						1001468	306			100146	200		
04.41 SHIFT (001		64.04 SHIFTS (0013)	04.00 KSMFTS (00131	141001	994100) 51 71+40	124100) 02 41.40	1441901 47 919	64.17 30 (06.1953	41.00)	300	(141nn) L2 10-62	£\$41001 0× *3*57	1001400	00.4 co.40	94[00] 000 (0140	(1901) AND ANTO (ARATM)

			:	1001924) 64.01					
51:13	64.16	04.21	1	64.03	64.16	90.54	i	64.21	65.07
(061441) 64-13	(001653) 64-16	(001468) 64.21		10014151 04.03	10014531 64-16	(094100)		10014641 64-21	1001562) 65-07
\$7),		30.5	17	;		3	3	3
61.10	ué 71.43	,1:	Juc 1	65.44 27	.5.60	50.00	ov	36 10.60	40.03
62 91-19 1544WI	14414341	1001001	[004[00]	[ccv.w]	[1007401]	17,131	1004450)	10,176.1	(101141)

CHANT TITLE - NEW-PRUCEDUNAL STATEMENTS

CHANT LITEL - SUUKDUIINE CERRIVINIVUUT)

.23-x (001487) 46.24-4	\$0°.		7.16	7.08	7.10	7.13	
(uu1485) 46.23-X	1002013) 67.05		10020211 67-16	10020161 67.08	1002017) 67.10	10620191 67.13	
Cr An		300					3
of.el CrAn	.1.60	01.05	30.60	01.10	67.12	47.15	01.10
(100,000)	1212203	(Missis)	(010700)	11.10	(513773)	1020201	1002.0211 67.10 2001

CMANT TITLE - NON-PRUCEDURAL STATEMENTS

LHAKT TITLE - SUBRGUTINE LAMPLPTAIM.VIM.XTWT.YOUT)

(001483) 46.21-X

1002032) 69.01 LAMPCP

UB/11/75 FAGIL CAKU ID FAGI/BUX	FAGE/BLI	FAOLE UF CONTENTS AND REFERENCES LX NAME	IS AND KEI	+ t K t MC E S	AUTGELM CMART SLT - FWU/SLL FRFFRINCES (SCUKEL SECURKE NO. AND PACE/BUXT)
COUZOS-3 OT-CZ LAMPAE	70.40	LAMPRE	(001434)	1001474) 46.17-K	(1061461) 40.14-3
(W2030) 04.04 100	10.30	331	10050333 65.01	10.49	
10,20363 64.00	04.00		10020341 64.07	67.07	
(460200)	04.07 200	200			
(2407m)	04.10		10020431 64-11	11.70	
(002043)	300	300			
10020471 04-13 500	64-13	200	100,040) 64,08	90**9	

CHAKT TITLE - NUN-PRUCEDUKAL STATEMENTS

CMART TITLE - SUBROUTINE ERGYLPIX,Y)

100700)	11.01	71.01 ENGYLP	K-11-6E 17+21003	39.11-X			
1002001	11.02	71.02 ERGYRE	10012431 39.07-X	39.07-x	(001245) 34.04-X	34.04-X	
1002021	71.04 100	25.1	10020563 71.01	10.17			
(00700)	11.00		1002004) 71.07	10.17			
1002001	71.07 200	300					
(1002001)	71.10		10020663 71.11	11.17			
1002001	300	300					
(00200)	71.12 500	900	10020651 71.08	11.08			

CHART TITLE - NCN-PROCEDUKAL STATEMENTS

CMART TITLE - SUBKGUTINE FGENXY(X,Y)

	;	1						
1002001	13:01	13.01 FULNAT	X-10:44 (504100)	¥-10-4				
(002103)	73.04		(002105)	73.02				
(002101)	13.00		(002708)	13.01				
(007 709)	13.67	306						
10020431	43.65	75.Cb FUINH	25.60	2560 44.03-X	1110	1110 202.26-X		
10020951	73.10 100	1 00	10020923 73.01	13.01				
(669700)	73.13 116	110	1002046) 73-11	73.11				
(007100)	13.15		(00200)	73.13				
10021101	73.17 200	200	10021011 73.16	73.16				
10021131	13.61		10021121 73.19	73.19				
(1002117)	74.61	300	(1007111)	73.18				
10021201	74.05		10021191	74.03				
(06,2121)	14.00	• 00	(002116) 73.21	13.21				
(0621251	14.08	919	10023001	73.67				
(161200)	74.12		(00/133)	74.13				
(1002133)	74.13	9,20						
(002134)	74.14	651	10021261 74.09	14.09				
10021361	14.11		10021351 74.15	74.15				
10021451	75.03		(441200)	15.01				
(0051200)	15.04 700	700	10021401 75-11	15.11	10021641 75.12	75.12		
(102152)	75.03 800	3	(002190) 76.06	76.06	1002150) 76.20	76.20	1002147) 77.03	17.01
i i			4.44					

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REFERENCES ESUURLE SCUURNE NO. AND PAGEZBOXE AUTULION CHANT SET - FHEFSCL 10022221 77.04 TABLE OF CURIENTS AND REPERENCES 10,2220) 77,67 10022111 76.24 100.23 V. 17.06 10022348 77.03 (601,700) LALU BU FALEZE X INSPE 17.07 1444 77.00 .00.77 11.11 950 77.64 77.0. 4-718 14122001 12652001 10.22. 1777 701 UE/11/17

CHART IIILE - NUN-PRULEUURAL STATEMENTS

77.11 1200

150727031

CHANT THEE - SUCKEUTING PHULCOXIVE

1.015071 47.13-X 10015041 47.15-X 80.61 80.05 10022511 80.14 10.97 (662590) 1002441 E0.00 10022441 80.11 74.03 (10224t) 80.09 (UUZZ35) 74.05 10022521 80.10 10022001 (047700) 10022341 75.01 PPULL 20.05 240 75.00 It. 2.5 £1. • (1.) 10.03 11.00 61.03 £0.10 40.45 14.00 (cezzan) 17051-07 [cm; 244] 10022201 15022231 (00,240) (m. 242) 100.6343 1652,00) 100227001 10022411 10022301

CHAKT TITLE - NUN-PRUCEUUKAL STATEMENTS

CHAKT TITEL - SUPROUTINE ABORTINCOURT

(uuclus) 73.03-x (60211.) 73.2u-x (uucl35) 74.16-x (902224) 77.11-x function) cook extract [UU2250] CZ-U1 ABUK]

CHAFT TILL - NOT-PELLEUUKAL STATEMENTS

CHART TITLE - COBNOUTINE PILISTON

10023471 88.28 [001347] 42.12-X [001344] 42.14-X [001351] 42.16-X [001353] 42.18-X (UUZ316) 66.11 (UUZ383) 88.21 10023041 86.06 10022461 65.12 (002276) 84.02 10052861 85.01 (0035411 85.05) (00/245) 85.10 (UUZ3US) 86.03 10023001 65.10 10,230 15,17 (0075851 84.00) (0,02275) 84.01 10022741 85.08 E4.03 P11.151 10024111 65.16 1100 34.05 000 10.01 54.00 12.03 Tu 20 45 21.63 (1.49 (447/00) 40.43 05.16 E. . C. 10077001 19127001 1222771 1+1+200) (11/2003) [442,700] (997770) (1477341) (062245)

1001344) 42.14-X (UCL332) 42.10-K (OO1353) 42.16-K									1 (002363) 88.21 (002397) 88.28														
42.1									66.1														
(001351)									(00/3161 66.11														
42.14-X									86.06														
14013441									10023041 86.06														
	84.02	90.48	84.01	10.48	\$0.68	85.08	95.10	86.03	55.12	65.10	85.17		85.13	84.04		96.10	£6.19	66.21	66.23	86.26	86.27	87.04	87.06
(UU1547) 42.12-X	(002276) 84.02	(1002282)	10022751	10052861 85.01	(162291)	10022441 85.08	(00/245) 85.10	10023051 86.03	10022461 65.12	10023001 65.18	(tuc3u2) 85.17		(602277) 85.13	10023131 86.09		(402314) 66.10	(002329) 86.19	10053301	11665001	(002335)	(1002337)	10023411 87.04	10023421 87.06
secol PILIST		2	920	2					9011	7	÷	ç	3		100	1007				751	160		
44.01	5	10.00	5	60.63	45.06	91.69		\$1.15	65.16 1100	40.03	70.03	\$0.34	\$0.05	10.01	t6.05 100	E0.14 4001	44.41	86.23	66.23	07.01 15v	87.62 160	47.06	30.53
14127001	(14.52.41)	14622701	(m241+)	19977701	(00.2292)	(442790)	10022001	(447/00)	[[[47m]	11023031	10~230~1	(405.500)	to.cs.us	(115700)	16623133	(5,2317)	(05650)	(186770)	10023321	(%5338)	1465541	1.245.2001	(100,343)

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67/11/30	Z AL	91. OF CON	TABLE OF CONTENTS AND REFERENCES	RENCES	AUTOFL	OW CHART	AUTOFLOW CMART SET - FWO/SCL	1351
CAKD 10	PAGE/60X	NAME			REFERENCES	(SOURCE	SEQUENCE	REFERENCES (SOURCE SEQUENCE NO. AND PAGE/BOX)
1602 300)	87.10		10023431	87.04				
(46300)	87.12		(002344)	01.10				
(w2340)	47.14		10023451	87.12				
1002344)	87.10	350	(002346)	87.14				
10023201	11.13	306	(002348)	87.15				
(+66.5W)	07.64	346	(002353)	91.19				
(466709)	17.75	10+	(002353)	87.19				
1002 304)	67.22	*04	(002353)	87.19				
(405.200)	44.01	705	(002328)	81.08				
(uu/372)	10.81		1602371)	88.02				
1002 3743	18.07		(605373)	88.05				
(1, 12370)	11-20		(002375)	80.88				
110023711	21-99		1002376)	88.10				
111.23/8)	ct.l.		(1002,377)	88.12				
1.72, 374)	26.35		10023783	88.14				
[164,364]	41.11		10023811	88.17				
(102:38.3)	17.90	5	(002358)	87.20	(002363) 8	67,21	(1002368)	87-22
(445.50.5)	64.23		10023821	88.19				
(CAC JOO)	67.00	196						
[462344]	17 - RC		(005701)	89.04				
(10,200)	66.33		(007200)	88.31				
10057001	35.35		1005401	86.33				
10057001	34.01	3,0	(005405)	88.35				
100-407	*7.*2	3	10054031	86.36				
1.005.404.1	64.03		10057001	80.05				

LMANT IIILE - MUN-PALICEDURAL STATEMENTS

CHART TITLE - SUBRUUTINE PACK IDDAT, IND. 1817, IARY ...

(002402) 88.35-X						
(002397) 88.28-X (0	₹0°16	91.05	91.08	91.10	\$1.14	11.10
(002397)	10024201 61-05	10024271 91.05	10024281 91.08	(002+24) 91.10	1002434) 91-14	[UU2437] 91.17
PALK						
10.14	*1.04	10.14	41-10	41.12	41.10	*1.14
(UUZWZ3) 91.61 PACK	(1,002,007)	(10/4/01)	(42424)	10645001	[45+31-1]	(107478)

LHART TITLE - NUN-PRUCEDURAL STATEMENTS

CHAKT TIFLE - INTRUDUCTORY COMMENTS

CHANT TITLE - SUBNEUTINE PLUITKEUV)

45.20-X (001357) 4.2.20-X (001359) 4.2.20-X (001359) 4.2.24-X 10024501 94.01 10024511 94.02 110,4-50) 44.0) PLUTTA (4,4-50) 44.05 10 (4,4-50) 44.05 20

(002408) 89.05 10024011 64-07

CHANT TITLE - NUN-PROCEDURAL STATEMENTS

CHART FIFLE - SUBROUTINE PACK (IDAT - IMD - IBIT - IARY - *)

(002397) 88.28-X (002402) 88.35-X 10024261 91.02 1002*27) 91.05 10024781 41.08 (002424) 91.10 1002434) 91.14 10024373 91.17 VI.61 PALK 40.44 10.47 \$1.10 ۲۱۰۱۶ 41.10 *1.14 (674.799) (52,500) (474701) (424700) 106,2001 [65.4.51.1] [455700]

CHANT TITLE - NUN-PRUCEDURAL STATEMENTS

CHART TITLE - INTRUCALTORY COMMENTS

CHANT TITLE - SUBNEUTINE PLUITRIUM?

(001357) 42.22-X (001359) 42.24-X (001361) 42.26-X (1002451) 94.02 10013551 42.20-X (0024531 94.03 10054203 64*01 10024511 94.02 10024561 94.06 (602476) 94.19 1002478) 94.22 1002-74) 94.24 10024931 95.07 10024451 95.00 (002467) 95.03 10025071 95.21 44-01 PLUITA \$5.14 665 30.40 F.06 44.00 500 V***U5 10 21 91.44 05 20-54 * 10.00 11 10.54 45.66 47.44 21.64 44.21 1005201) 4-2/9 105*791 12692001 (*5*79) (015,510) (1002-57) 1002+300) 1002477 (62,4700) (78*7n) (144701) 16024430 10024441

TABLE UF CONTENTS AND REFERENCES

REFERENCES (SQURCE SEGUENCE NO. AND PACE/BOX) AUTOFLOW CHART SET - FWD/SCL

> NAME CAMU 10 PAGE/BOX R 46/11/75

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHANT TITLE - SUBROUTINE DEFARITM: TOUT!

(UG1449) 45.18-X (OO1451) 45.20-X 10025271 97.05 1002531) 97-10 10025501 97.08 (0025331 97.13 10025351 97.16 (UNESCU) WT.UE DEFAR 47.10 2W +7.05 1UL *10.14 00.43 47.10 51.15 ¥7.1. 14565271 10252031 10052001 10052001 (Section) (+6520:1) 11545001

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CHART TELL - NON-FRUCEDURAL STATEMENTS

CHANT HATEL - SUGNOCTINE DIGIFECTIN-10071

(uuluu)) 44.05-X (001404) 44.07-X (002555) 94.08 10025533 99.06 ****** DIGIFE Ju5 00.44 44.00 44.05 50.44 (Lection) (00,550) 10052771 (100,252) 1002331

LHAKT TITLE - NUN-PROCEDURAL STATEMENTS

CHART TATLE - SUBNOVITNE COTOFELEXIVE

10613731 43.03-X 43.05-X 622 101.07 JAN 101401 CDIOFE Is essent tolour CDFNCL 022 101.07 10 CO-101 (2855-0)

CHAKT TITLE - NUN-PRUCEBURAL STATEMENTS

UMANT LIFLE - SUBKEUTINE INGIGATORNOCUT)

(001385) 43.15-X (001387) 43.17-X (1002546) 103.06 toresent toront theful LULARY TOTAL TOTAL tourshot towards 10052433 113005

CHART BIFLE - NUN-PRIACEDURAL STATEMENTS

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LHAMT IIILL - NCA-PRUCEDUNAL STATEMENTS

CHART HILL - SUBNEUTINE INCTOKTOIN, DEUT!

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Crant Hill - Ach-Procedonal Statements

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TABLE OF CONTENTS AND REFERENCES ub/11/75 AUTUFLUM CHART SET - FMG/SCL CARLI TO PAGE/BUX NAME REFERENCES (SOURCE SEQUENCE NO. AND PAGE/BOX) CHART TITLE - NUN-PROCEDURAL STATEMENTS CHART TITLE - SUBRULTING ROTOFETFATE 10020701 107.01 MUIGHE (W1377) 43.07-X (UULS74) 43.09-X tousout julius abstice turious lution 10026911 107.07 10020411 107.07 10 LHART BILL - NUN-PRUCEOURAL STATEMENTS then itset - Scotobline Dioficiaty; 10014841 46.27-3 thorough acres thickle 10027031 109.05 (IN. 700) 107.U. 10027011 109.03 10027031 104.04 10027031 104.04 100 toucture love or bastit (UU1441) 46.29-X 10027071 109.00 CEMPL (002766) 105.07 100.7643 164.16 156 10027241 104.18 100, 7101 109.11 10027211 109.16 10027131 104.13 10027,11 104.16 200 10027241 104.18 200 CHART TITLE - NUN-PROCEDURAL STATEMENTS CHANT TITLE - SUBRUUTINE HETIX.Y) 10-27521 111-01 HET 10027301 111.03 (002744) 111.06 (mi2744) 111-06 100 CHART TILLE - NUN-PROCEDURAL STATEMENTS CHAFT TITLE - SUBRUUTINE CEMIX-Y) 10015151 47.21-X 11m27011 113.01 ECM (002766) 113.03 10027651 113.05 5 (002775) 113.11 (0027731 113.00 (002775) 115.11 100 (662776) 113.13 (wu276+) 113-15 200 (002785) 113.16 110.7001 113.18 10027661 113.21 (002767) 113.19 10027453 114.01 240 10027921 113.24

CHART TITLE - NON-PROCEDURAL STATEMENTS

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(002744) 114-05 (002801) 114-06 301

(w.2866) 114-10 (w.2815) 114-15 566

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10020141 114.21

10028211 114.24

(002790) 113.22

1002821) 114-24

(062763) 113.14

(002801) 114.06

(002796) 114.02

(002815) 114.15

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(002818) 114.19

(002820) 114.22

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AUTOFLOW CHART SET — FWO/SLL REFERENCES (SOURCE SEOURNCE NO. AND PAGE/BOX)

UBVILTS TABLE OF CUNTENTS AND REFERENCES CAND 10 PACE/BUX NAME P TO CAND 11 - SUBRUUTINE DICFSFIX,Y)

							(002807) 114-11-X					
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10030563 123.00 000 1w3uell 123.ub 50f (W3064) 123.12

10030711 123.14 1w30721 123-17

CHAKT TITLE - NUN-PROLEDURAL STATEMENTS

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CHART TITLE - NUN-PROCEDURAL STATEMENTS

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CHAK! IIILE - NUN-PAUCEUURAL STATEMENTS

CHANT TITLE - FUNCTION RRANDINITYES

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(001239)	12.0			
39.62-X 173.16-X	9.13-K			
(001230) 39.02-x R 173.16-x	(000430)			
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UB/11/75 TABLE OF CONTENTS AND REFERENCES CABU IU PAUL/BUX NAME

REFERENCES (SUURCE SELUENCE NO. AND PACE/BOX) AUTOFLOW CHART SET - FWO/SCL

CHAK! 11TLE - FUNCTION IFLUIIST, NBITS, IMORD! LMAKT TITLE - MUN-PRUCEUUNAL STATEMENTS

LMANT TITLE - BILLER DATA

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LHANT FILLE - NUN-PAUCEUURAL STATEMENTS

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LMANT TITLE - NUN-PALCEDURAL STATEMENTS

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CHANT HILL - SUSKULTINE MUDETIXIN, XUUT!

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		43.31-X			4-01-6+					152.11	45.28-X					40.01-X			46.05-X				45-24-X				154.00	153.14
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	(10035721 152.11	(001344) 43.24-X		10035781 152.16	(001445) 45.14-X	10035881 152,23		100358-1 152.20	(663500) 157.21	10035671 152,06	(UU1457) 45.26-X	(1003602) 153,07		10035761 153.04	10035001 153.05	tuulsell 45.30-x		1603008) 153.12	[col465] 46.03-K	٠.	10036143 153.17	10036201 154.05	(UU1+53) 45,22-X	fousb2b) 154.08		10030203 154.05	(603624) 154.01	10636631 153.07
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AUTOFLOW CHART SET - FMU/SCL

SABLE UF CUNTENTS AND REFERENCES

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COME FIFTE - PUN-PAULE UDAR STATEMENT.

CHART FILL - SULMEDUTINE ANTINTINPEBBIT, ANTP, COEF

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Chan I HILL - NUM-PRULEDURAL STATEMENTS

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10044011 203.2		(004ef5) 206.22-X (004982) 210.05-X (004983) 210.67-x				(WU4662) 203+2								
(001254) 54-15-X (004767) 205-10-X (004801) 203-25-X	(0013251 41.21-X (002247) 60.07-X	10038121 161.14-8	(003709) 158.03			[UG2248] 80.10-X [UG4790] 203.12-X [UG4802] 203.25-X								
X-41.	x-1-2-1+	tuciscs) 41.19-x	10.841	156.10		4-01.08		156.15	156.21	156.23	159.17	159.16	2150 159.07	159.14
ź	ē	00.13233	10.821 [26,500]	14037211 156.10		(942.790)		(UU3736) 158-15	156.21	(UUST37) 156.23	11.061 1857600)	1003774) 159.16	2150	(1003766) 159.14
re (047100)	retool	-												
			==		ž	UFINCE	3	20				7	2	
re location) that the foreign twenty of	tecan in these offer (0013)	t datata absace orther	trustes secon to	feasing poses	1003741) 150410 5c	(1.5724) Itanto urince	luvstary therab hh	twasts tack to	62.461 (187cou)	1003736) 154.01	10037391 159.0c	17 20.4ct 1725.md	UN37581 159-10 70	11.451 (00760)

AUTOFLOW CHART SET - FMD/SCL	REFERENCÉS (SOURCE SEQUENCE NO. AND PAGE/BOX)
TABLE OF CONTENTS AND REFERENCES	AGE/BUX NAME
08/11/75	CARD TO PAGE/BUX

1.037061 154.14 400	154.14	93*	
1002 TLatt (2Ttu)	154.17	907	(003768) 159.15
(W3776) 157.14 75	154.14	22	
00 //. WC1 (1476.44)	12451	q _D	2410 159.18

THAKE THEE - NEW-PROCEDURAL STATEMENTS

X.C. (X.Y.A.b)
SUBSCUTTINE
11111
CHANT

HOUSTYLD TOLOCY RECF	101.61	k c c	(1697E)	40.07-X	(uc)4691 46.67-X (004644) 198.12-X	
tous they solved KELFTE	tol eve	KELF TP	(10.14.11)	10014711 46.09-X		
of so. tol toward	161.04	10	10037431 161.01	10.101		
terstown totals	101.13	2	10037491 161.06	161.06		
terston touster!	11.101		(1013810) 161.12	161.12		
to seattle tolest? Jon	10101	707				
on the tot to too too	101.17	(10)	(w3813) 161.15	161.15		

Crant HILL - NUR-PRULLUUKAL STATEMENTS

CHANT TITLE - SUBRUUTINE PXFKMEX, Y)

10038841 165.09-X									
1003884)									
(001475) 46.13-X	163.10	163.05	163.06		163.19	163.14	163.15		163.11
1001+151	(003839) 163.10	(003831) 163.05	10036331 163.06		10038571 163.19	1003846) 163.14	10038481 163.15		1063840) 163.11
FXFKH		100	3.	200		356	351	200	25.0
10.001	103.64	103.07	163.08	103.16	163.14	103.10	105.17	105.15	103.601
(water) tostol PXFRM	10,3430) 103,64	tousest tessor luu	twatest leaders 44	(vusest) les.16 2vu	fivited toster	frastate tosate aso	lucation lossly 351	tractiff toseth	forseign teaser)

CHART TITLE - NUN-PRUCEDURAL STATEMENTS

CHART TIFLS - SUBBLUITME CUENSFIXF, YFP

(001473) 46.11-X	X-51-94 (117+100)	165.01	165.06	105.07
(001413)	(1001477)	10.38721 165.01	1003879) 165.06	10038619 165.07
CCENSF	CLENCM	01	97	30
10.041	105.02	105.04	40.04	105.06
tour 6711 tes of CCENSE	(cuse7s) toseud Chencm	Ut +u.cal (cfacus)	US 40.cd; tabted	ut Postal (Pastau)

 (u.bers)
 100.4733
 46.13-X
 (003884) 165.00-X

 (u.bers)
 105.04
 (004834) 163.10
 105.04-X

 (uv.bers)
 105.07
 1VU
 (004383) 163.05

 (uv.bers)
 105.04
 VY
 (004383) 163.05

 (uv.bers)
 105.10
 2VV
 (004387) 163.16

 (uv.bers)
 105.10
 2VV
 (004384) 163.16

 (uv.bers)
 105.17
 351
 1004384) 163.15

 (uv.bers)
 105.17
 304
 (004884) 163.15

 (uv.bers)
 105.17
 304
 (004884) 163.13

CHART TEFEE - NUM-PRUCEDURAL STATEMENTS

CHART TILLS - SUBREUFINE CUENSFIXF, YF.)

CHANT TITLE - NCA-PROCEUDRAL STATEMENTS

CHAKT HILL - SUCKUUTINE RNUAKYTRNUT

K-11-0+ 10921001 X-60*0+ 18121001 10013295 +1.25-K 10013271 41.23-X 10013311 41.27-X 10038471 167.03 H 167.10 1003914) 167.16 (tostab) telest knusky funitaria tolius lu finishis lolius aluknu tousynus 107-12 AURNUC K 167-10 20 (103414) 107.10 +0 \$1.101 121PEWOI Cousting 107.02 *3.501 A (1,03,507)

Lynns 1111c - num-priceounal statements

06/11/75	1	ABLE OF	CONTENTS AND RE	FERENCES	AUT	OFLUW CHART	SET - FWO/SCL			
CARD EU	PAGE/BU	X NAP	lt		REFERENC	ES ISOURCE	SEQUENCE NO. AN	O PAGE/BOXI		
		***	**************************************							
CHART TIT	Lt - 200	KUUTINE	CUMDISCUATAIN,	XF)						
L	104.01	CUMD15	(001266)	39.29-X	10012681	34.31-7				
·	164.04	20								
L	104.64		ί	169.05						
L	104.00	CUM2								
	164.06		ί	169.05						
	16.401			169.17						
	109.14		c	169.12						
	104.10									
	104.10		c	169.14						
			(001270)		(001272)	40-04-X				
	170.04	001007		170.02	10011111					
	170.07			170.12						
	1/0.04		•	110.12						
	170.04		C	170.10						
	170.11									
	170.14		(001274)		(001276)	40.07-X				
			10039801							
	170.22			171.03						
	170.24		c	171.01						
	171.0:									
L	171.03	100								
L	171.04	200	c	170.13						
·	171.06		(004600)	171.06						
L	171.09		c	171.10						
Ĺ	174.40	300								
			RTUPDELX.Y.M.	P)						
	173.01	D TIMPIAN	(001218)	38 - 00-X						
	173.02		(001228)							
			(061230)							
	173.60									
	173.00									
	175.10				1001226)	38.17-Y				
	175.10			173.01		173.03	R 173.05		173.07	R 173.0v
		10			•	173.03	k 173.05	•	173.07	# 173.04
(004042)				173.15						
	173.20			174.10						
	175.21		1004049)	-						
	173.26									
	1701			173.22	_					
	174.02	50		173.21	R	173.26				
•	174.00			174.04						
	1/4.04		(00+056)							
	1710			174.06						
(unous)	=	200	(004042)							
[60+00]			10040623	174.14						
[004662]		210								
(uuquas)			(004066)	174.18						
1000001		220								
(004070)			(004077)							
(004073)			10040721							
k.	174.21		(004074)	174.25						
(00+076)	174.28	225	10040731	174.24						
106-077)	174.24	2 30			0 13					

9-228

UBVIL/75 TABLE C: CONTENTS AND REFERENCES AUTOFLOW CMART SET - FMO/SCL CARU ID PAGE/BOX NAME REFERENCES (SOURCE SEQUENCE NO. AND PAGE/BOX)

CHART TITLE - NON-PROLEDURAL STATEMENTS

CHART TITLE - FUNCTION ALGAINIANGES

b 176.09			
6 176.07			8 176.08
B 176.03		B 176.06	B 176.06
91	22	30	20
8 176.Us 10	170-67	4 176.08 30	0 170.10 50
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UMANT HILL - NUN-PRICEGURAL STATEMENTS

CHAKT HILL - FUNCTION ELGAINTANGLE

1 178.0%			
1 178.07			1 178.08
1 178.03		1 178.06	178.06
1 175.00 10	1 178.67 20	17tout 3t	1 176.10 50
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CHANT TITLE - NUN-PEUCEUURAL STATEMENTS

CHART TITLE - SUBROUTINE SCANNRIDY)

						UC75CN48 180.12					UC75CN93 181-84 UCZSCM00_181.15				UC75CN43 182.05	
2520 42.30-X	UC75CM18 180.06		UC75CN56 180.17	UC75CM54 180.16		UC75CH41 180.09	UC75CM75 181.04		UC75CM14 181.22	UC75CM91 181.09	UC75CN93 183-84	UC75CM12 181.21	UC75CN57 182.18	UC75CM35 182.10	UC75CM37 182.02	UC75CN56 182.17
SCANNR		91			ž	70		2		95	69	18		3	;	÷
10.001	190.04	140.65	loc.ch	100.12	164.15	140.17	1	101.04	181.04	101.16	101-24 65	162.00	182.04	147.14	102.10	162.24
ULTSCHUS LOUGUE SCANNR	ULTSCNIT	UCTSCNIB	UC75CM36 10U-CA	UCTS LINAS 180.12	UC75LM54 164.15 50	ULISCNS& 140.17	ULTSCHON Juseli	UC75CM75 151.04 75	UCTSCNSV 181.08	UCTSCNUS 101-16 02	UC75CN14	UC75CN18	UL75UN32	UC756N=0 182-14 40	UC75CN57 102.10 45	ULZSENOT 162.24 45

CHANT TITLE - MUN-PHOCEBURAL STATEMENTS

CHART TITLE - SUBRUITINE SPEAVULE. ..

1-87*7* DOC7	UC75PG11 184.04	UC75P60+ 184.02
2		3000
10. 10. 10. 10. OLGI	184.00	19**01 3000
	0.759612	UL73P644

									UC75CM43 182.05	
LE78CH-1100-07	UC75CN75 181.04		UC75CB14 181-22	UC75CM91 181.09	UCTSCM93 181-51	UC75CH12 181.21	UC75CN57 182-18	UC75CM35 182.10	UC75CM37 182.02	UC75CM56 182.17
1.17 70	7.7	er +0.1	90-1	1.16 82	1.24 65	2.00 B7	2.05	2.12 80	2.10 43	25° 42° 51
UL75CM56 140.17 70	ULTSCHOP Lunch	UCTSCHTS 151.04 TS	UC7, UN6" 181.08	UCTSCNUS 101.10 02	UL75CN1+ 101.24 65	ULTSCN18 162.00	UL75LN32 152.09	UCTSCHIO 182.12 WU	ULTSCN57 182.18 43	UC75CNu1 162.24 95

LMANT TITLE - NUN-PROCEDURAL STATEMENTS

CHAKT TITLE - SUBRUCTINE SPCAVLIE.01

2500 42.28-X	UC75PG11 184.04	UC73P609 184.02	UC75PUA4 184.18	
SPEAVE		3000		200
1070 184-01 SPEAVE	30.00	1604 3000	18.16	1016
1070	UC75PG12 184.00	UL73P646	UC73 PL34 184-16	ULTSPUA4 104.16 200

CHANT TITLE - NOM-PRUCEDURAL STATEMENTS

CMANT TITLE - SUBRGUTINE PHENCIO

1004321) 186.01 PHENC	186.01	PHENC	(000 863)	(000863) 22.06-X (000808) 22.10-	(000000)	22.10
104-322) 186-03	186.03		(004321) 186.01	10.981		
(We325) 186.07	166.07		10043241 186.05	186.05		
+ (044326) 186.08	186.08		(004337) 187.12	187.12		
66.3391 186.10 100	186.10	8	(00+322) 186-03	186.03		

00/11/75	TABLE OF CO	MIENTS AND REFERENCES	AUTOFL	DW CHART	SET - FWO/SCL	
CARD IG	PAGE/BOX NAME		REFERENCES	ISQUACE	SEQUENCE NO. A	ND PAGE/BOXI
(004341)	184.13	(004340) 186-11				
(0M3A3)	186.15	(004345) 184.14				
14043451	184.16 400					
(004330)	187.00	(044329) 187-02				
1443311	187.06 150	10043273 186-09				
(00-331)	187.06	10043301 187-04				
10043321	167.06	(004331) 187-06				
(ceemu)	167.10	1004336) 187.11				
ادودسا	167-11 200					
(wi337)	167-12 300					

LMANT TATLE - NON-PROCEDURAL STATEMENTS

LHART TITLE - SUBROUTINE ANTARY(X,Y,+)

SOTMALOU	164.61	ANTAKY	2700	43.19~X	
210	184.63	ANTPAT	3590	K-90. T4	
ULTANT 20	164.05		UC7ANT25	189.06	
UL7ANT27	192.02	5	UC 7ANT 20	189.02	
ULTANT31	164-14	68	UC7ANT28	189.11	
ULTANIS	189-17		UC 7ANT 32	189.15	
UC7ANT 20	154.20	7	UC7ANT33	189.17	
UL FANT 40	169.44		UC7ANT34	189.22	
ULTANT-1	184.27	60	UC7ANT40	159.24	
UCYANI45	164.24		UC7ANT46	190.01	
UC TANT 46	190.01	95			
ULTANTSU	140.05	75	UC7ANY47	190.02	
UCTANTSZ	140.07		UC7ANT53	190.08	
UCTANT 53	190.08	eo			
ULTaislo4	190.13	10	UC7ANTS6	190.10	
UCTANT TU	140.14	35			
ULTANT 70	196.19		UC7ANT69		
73u	140.53	40	UC7ANT67		UC7ANT73 190-20
UL7ANT81	140-56	52	UC7ANT84		
UC7ANT65	191.01	55	UC7ANT79		UC7ANT81 190-26
UC7ANT 89	191-05		UC7ANT91	191.06	
ULTANTYI	141.00	50			
845	141-10			191-08	
UL7ANTY5	141-14			191.10	
450	141.16		UC PANTO3	191.17	
COTHATOS	141.17	76	UC7ANT12		
1601	191.23		UC FAMILE	141.21	
UL/ANTIÈ		85	UC7ANT14	161 10	
UL7ANT15	191.36		UC TANT 34		
1110	191.31		UCTANT38		
1150	142.03	46	DC / ANT 36	172103	
OCTANTOO SCINATOU	142.03	70	1346	191.35	
UC PANT 34		95			
UL TANIST	142.07		UL TANTAO	192.05	
ULTANTS	142.12		UC7ANT>B		
UL PARTO		**			
LLTANT 60	-	100	1520	192,09	
UL TANT 64	145.14	43	UC JANTOL		
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CHART TIFLE - NON-PROCEDURAL STATEMENTS

AUTOFLOW CHART SET - FWG/SCL	FFERENCES (SOURCE SEGUENCE NO. AND PAGE/BOX)		
NO REFERENCES	2	1430 38.23-X	10.201 0205
TABLE OF CONTENTS AND REFERENCES	WE/BOX MANE	K.TPLTO2 145.Ul PLTPMT	195.04 7
8/11/30	CALD TO FAME/BOX	UL7PLT02 14	2100 14

							2410 195.21											
V_6300 0661	10.201 0205	213v 195.05	3180 195.08	11.291 0625		2360 195.18	2330 105.17	2380 195.20	2810 190.20	2510 106.07	2690 196.14	2010 100.12	2610 196.12	2790 196.18	2730 196.16		2800 196.19	
	\$050	7F72	4180	9530		2360	2330	2380	2610	2510	2690	2010	2610	2790	2730		2800	
	_	302	303	305	320	,	20	\$1			356	125	*05	450	3,	Sev.	301	
	105.04	195.08	145.11 303	1.541	145.15	145.10	43.541 JY5.24	10.041	1.6.05	25.cu 196.0v	746. 11. 354	Zucu 19c.is 4ul	146.15	2130 190.1C	146.15	140.20	146.41 301	
WILLIAM TATION ACTION	2100	2160	2230	22.40	2310	2320	2370	2470	7047	3262	2570	2007	27.00	J. 130	2860	4610	2# 2v	

CHANT TITLE - NUN-PROCEDURAL STATEMENTS

CHAKT TITLE - SUBRUUTINE TSRPATIXT. VT. XAL XAZ. XR. VR. 01

						10046451 198.13 (004663) 199.03														
100.05		47.11-x		198.11	60.861	10.001	500.04	198.08	199.08		199.09	100.04	149.17		109.18	199.20	199.13	200-10		80.005
(004656) 198,05		x-11-74 (202100)		10046431 198.11	60"861 (099900)	10.44501 198.01	10046881 200.04	1004000 198.08	10046681 199,001		10040041 100.00	100-664) 199.04	(1004679) 199.17		1004680) 199.18	(004681) 199.20	10046731 199.13	10046433 200-30		10046421 200.08
	26	TSRPAT	02	30	460	326	931	3		200		**		ntot			1001		>00	
196.04	40.541	146.04	178-16	148.13	176.17	176.12	144.01	156.0	36u 156.67	146.08	144.11	154.14	144.16	144.17	100.20	1~4.22	1001 1001	100.007	,00.1L	3,000.10
1004031 196.04	(U+654) 176,US	tunestol live.or TSRPAT	1040411 148-10	1040401	Tinger Inch!	two702) 146.16 700	[01-44] [149-00]	1000001 1000001	360	(tracks) 146.08	toweld 199.11	turbles legals see	(UM-077) 144.1C	100-674) 144-17 1010	(10-001) 144-20	11440421 144.22	1120+301	10-00/ (140-00)	fourths) coult you	towers terminal

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success let.or TSRPAT	146,04	TSAPAT	1001565) 47.11-K	47.11-E			
10040011 148.16 20	148.16	90					
1000051 148.13 30	148.13	36	10046431 198.11	198.11			
temotel langual	1100.17	ţ	10046401 198.09	108.00			
troughly labout Too	146.16	3	1000001 1000001		10046451 198-13	(0040031 160-03)	63
aut torres traces	122203	7.1	100-6881 200,04	200,004			
(unabel 146.04 130	5.5.	3	10044401	198.06			
796	360 17.67		10046681 199,08	199.04			
(Umobal 194.08 260	100.00	260					
Invaled Ivvill	11.441		10040491 199,00	199.09			
the state tetarne	144.14	\$	100-6643 199-04	199.04			
unecli) ivelu	144.16		10046791 199.17	199.17			
plus treest total	144.17	noto					
(100+00)	13.20		fuctedus 199.18	100.18			
[10+0042] 1+4.22	144.22		(004641) 199.20	199.20			
(1,200.31)	200.63 1061	1901	(004073) 199.13	199.13			
(140404)	200.002		10046431 200-10	\$00.10			
fumewall 200-16 you	206.16	3					
10000931 200-10	200-10		1004642) 200-08	200-08			

CMAKI 1116c - MCN-PRUCEDURAL STATEMENTS

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CHART IIILE - SUBRUUITNE CGEM(X,Y,A,B,B,B)

7	avi 202.01 CGEN	CCEN.	(001411) 44.09-X	X-60.44	
105+1301	202.00	9	(004725) 202-03	202-03	
100	twa7201 202,30 75	7.5	1004731) 202.67	202.67	
188	10047384 20c.12		1064739) 202.13	202.13	
145	(UU4739) 202.13 8U	280			
(B92 9m)	204.25 261	192	(004752) 202-19	202.19	
31 .	100-8231 202.25 862	862	1110	1110 202.20	10047721 202.28
781	(w4778) 203.u3		10047951 203.16	203.16	
1 1004784)	203.07		10047823 203.04	203.04	
	203-15 102 NO. 151	151	100-3541 303 00	90 106	

CHANT TITLE - NUM-PRUCEDURAL STATEMENTS

CHANT FITTE - SUBRUUTINE TSARV(X+Y-XR+VR++)

(6014131 44.11-X	10046451 198.13-X	10.00 200.01	10048541 206.07	100-8541 206-11		1982 206.14	1681 206.24	1970 207,01	(004899) 207.06		2071 207.07	1476 207,01	2106 207.12	2107 207.14	2111 207.17	- 2112 207.19	2113 207.21	2130 208.07	2121 207.26	2122 208.01	2123 208.03		2102 201.10	2131 208.08	(001415) 44.13-X		2135 208.14	(00+4+5) 208.20
I SAR Y	1 SARM	2			3	777		101		340	919	144										330	350		T SAK Y 1	TSARMI	2	
206.002	kue suk	40007	******	400.10	110001	400-16	12.002	201.62	207.63	207.00	207.16	11.,07	207-14	267.10	*1-1-2	207.21	201.63	207.25	10.40%	£0.401	\$0.407	100.07	/06.11	200.11	, 06.12	/ub.13	711.107	41-407
Joor	Londmon	1073	[CCREATY]	1446561	1,004 654	77.7	100-561)	1460	[[14847]	(100000)	2101	2303	1017	4012	7117	2113	•111•	2110	7717	21.3	21.24	2130	2132	21.52	10044301	11000371	(24440)	[60.50

2106 207.12	2107 207.14	711 207.17	- 2112 207.19	2113 207.21	2130 208.07	2121 207.26	2122 208.01	4123 208.03		2102 207.10	2131 208.08	(1001415) 44.13-X		2135 206.14	(604945) 208.20		(004448) 208.22		(004949) 208.24	(004663) 199.03-X	(004952) 208,28	(004956) 209.02	10046401 210-19	(004458) 209.05	2260 209.08	2290 209.10	2810 209.13
									330	350		TSARY	TSARMI	3		^		TSARY		TSARME	£ (5)		*				
\$1.fuz	267.16	*1.1.	207.21	207.23	207.25	10.405	£0. 907	200.002	£0.402	11.407	205.11	. 46.12	£06.13	cut.17	20E-14	10t . 2U	,,,,,	206.26	40P-40	108.27	208.24	204.04	200.07	204.07	205.10	20%-12	204.10
2107	770	2112	2113	*17*	2110	4122	2123	21.24	2130	2132	21.52	(orange)	17644001	10044463	1000	(4442)	[4+4+0)]	1964-001	10044001	[16440]	(005118)	17644971	(46440)	(104454)	2290	2805	100~9081

10049791 210.02

2390 209-18

06/11/30	-	TABLE OF CLNTENTS AND REFERENCES	INTS AND REF	ERENCES	AUTOFLOW CHAI	AUTUFLOW CHART SET - FWG/SCL		
LAKU 10	PAGE/EUX	X NAME			REFERENCES (SOUK	(SOURCE SEQUENCE NO. AND PAGE/BOX)	PAGE/BOX1	
(1004674)	20°013	70						
(664400)	10.00		10049521 210.04	10.04				
1004404)	:10.0x		(004923) 210,06	210.06				
([655.])	-1001-	7.1	(004494) 210,69	:10.69	10044671 210412			
(04440)	210.17		(1004467) 2	210-18				
100-457)	210-22	ž,						
(control)	JIN-12	3	(004455) 210-10	01.01				
1163500)	5 7 · 01 /	Stud	1004444 210-15	310.15	(1005047) 213,15			
(*******)	110.1	3.10	(100500)	216.20				
(,,,,,,,,,)	. 11.01	2	1004443) 210-14	10.14				
(1.506.1)	- 1111		10056653 211,05	11,05				
(concor)	: 11 or :	3.5						
(M.Sovo)	VII.	7.5	(005000) 2	211.02				
(ne see t)		7.	(0051c+) 2	210.21 215.14	(005050) 213,16	1005057) 213.17	(005047) 215.11	(1005101) 215-13
7161	: ** ** :	Care	(665623) 212.63	12.63				
4010			1005038) 213,08	13.08				
3	,,,,,,,,		3640 212.06	12.06				
(500,000)	. 1 1	i e i	2441 212.04	12.04	(005013) 212,05			
10. 110.	1	1 1 1	1410 2	206.28				
120921		٠,	2>74.2	212,10				
(egonola)	. 1	405	2 (120500)	212,18				
(100.00.74)	. 1 1 '		(100,0037) 2	215.03				
(mosole)	, 1 1	137	(065074) 212.17	12.17				
(4656)	217.00		(065074) 212.20	12.20				
(17)(-1)	¿40.00.5	0010	(vu5v8v) 212.72	12.72				
(+*0500)	13.61.	1100	70*212 0197	12.02				
(ve sec 1)	13.60	ilue	(905046) 213.0Z	13.02				
(nencon)	47.00	1101	(005026) 213.02	13.02	1005026) 213,02			
(10000)	. 12.00	57.1	(002024) 213*03	13.03	(005033) 213,05			
(10.000)	110-00	4665						
([*ncoret]	11.51		(00>044) 2	213.12				
10 3044	.15.15	٥٠,						
(100,000)	41.013	***	(005039) 213,09	13.09				
(405055)	110017	31.0	10050511 210.20	10.20				
(1050500)	10.412	9130	(005051) 210.20	10.20				

(ususus)	613.662	110 <u>2</u> 1161	(0050261 213.02 (0050261 213.02	(005026) 213.02
the sea th	11.01	11.04	(005024) 213.03	(065033) 213.05
11.30301	370.77	4625		
(1+05m)	11:11		(005044) 213.12	
(4405.7)	415.12	3,43		
(Lusues)	(11)	***	(605634) 213.09	
(45950)	115.17	31,60	TOC50517 210.20	
(cososos	10-417	3130	10050511 210.20	
1450541)	200412		10020653 214-04	
(concent	- 340114	3140		
(100000)	114.65	10.26	(005040) 213.14	
12026 1)	47°487		1005067) 214,66	
(10211500)	. 1 1 2		(005068) 214.09	
(ce) (an)	.14.15	76.20	1005080) 212.22	
(000000)	115011	5,70	(065080) 212.22	
(0704)7)	210611	3256	(665082) 212-23	(005084) 214.15
1277971	20.615	574		
(manara)	<15.Ua		(1005041) 215.07	
(Leocot)	115.07	.014		
(242697)	212.UL	\$615	(005088) 215.04	
12605001	215.12	2400	(0049981 210.18	(005094) 215.10
(950570)	215.13	2401	(005048) 215.12	
(501 500)	+15.14	2049	(005098) 215.12	
(custes)	416.01	5403	(005098) 215.12	
(100)	216.04		(005104) 216.03	
(Ant cm)	216.03	5404		
1071500)	£16.0×	2500	1005093) 215.09	
(2112)	50*917		(005111) 216.05	
(20114)	110017		(605112) 216.08	

ליל ליל האמד TIILE – NON-PROCEDURAL STATEMENTS

TABLE UF CONTENTS AND REFERENCES

CAKU IU PAGE/80X NAME

AUTOFLOW CMART SET - FWG/SCL

REFERENCES ISCURCE SEQUENCE NO. AND PAGE/BOXY

CHART TITLE - SUBROUTINE CLINT(+)

(005187) 215.14 (00517) 215.17 (005148) 218.06 (005154) 218.11 10051441 218.03 (005158) 218.14 10051641 218.23 10051703 218.25 (005188) 219.13 10051651 218.21 (005187) 219.12 (005166) 215.11 10051771 219.03 10051421 218-01 CLINI (0-5186) 219-10 1020 10051671 219.12 1010 1001 214-13 1000 (0051521 216.UV 200 1003 1631 219.0V 930 10051461 216.00 100 (wolou) 218.10 211 tustice about 10051741 214.20 887 מפא הכיפול (יהולטה) 10051571 £18.13 50 10051051 218.21 10021701 216.25 100412 14114901 (wsi711 216.27 10051741 216.24 C 214.62

CHART TITLE - NUN-PRUCEDUKAL STATEMENTS

10051421 214.20

CHART TITLE - SUBRUCTINE MITELTIDIM-DOUT)

401	401 221.61 MTIFLT	HTIFLT	(001418)	(GU1418) 44.16-X	(101423) 44.21-X	44.21-X
67*	70*127	MIINCL	(601428)	(001428) 44.26-X	(661433)	45.02-X
\$	221.04	3	405	10.155 50+		
UL715017	421.06		UC715019 221.07	221.07		
UC715014	221.07	70				
144	221.09	76	404	405 221.04		
UC715021	*1*177	15	UC715022 221.11	221.11		
UL715431	221.16		UC715035 221.18	221.18		
UC71 50.35	241-15	91				
06715037	221.70	MILLET	10014501	10014201 44.18-X	10014251	44.23-X
659	157.01	MITINC	(061630)	(UC143U) 44.28-X	(0014351	45.64-X
¢ ≥ 0	69.727	00	622	622 221.21		
UC71503Y	222.05		UC7TS041 222.06	222.06		
UC715041	47.7.00	100				
110	222.08	2	629	625 222.03		
UC 71 5045	122.11	3.	UC715443 222.09	\$0.222		
00.715054	477.10	105	UC715048 222-13	222.13		
06715055	222.1E		UC715060 222,22	227.222		
UC 71 505 7	222-41		W715096 222.19	222.19		

UC715wow 222.22 110

2	š	2		2
221.07	221.09	47.177	221.16	241.15
*19% 12%	451	UC 71 SU 2 7	UL715431	UC715035

405 221.04 UC715022 221.11 UC715u35 221.18

UC715037 221.2U MT11FT 623 222.01 MT11MC 623 222.63 60	(001420) 44.18-X (001430) 44.28-X 622 221.21		(001425) 44.23-X
	UC715041 222.06	•0•	
UL715041 222-08 100			
071 222.08 70	625 222.03	.03	
UC715045 222.11 95	UC715443 222.09	•0•	
UCTISUSE 222516 105	UC215048 222-13	.13	
	UC715060 222.22	.22	
	UC715056 222.19	4	
UC#15000 222.12 110			

CHART TITLE - NUM-PROLEDUKAL STATEMENTS

CHANT TITLE - SUBRUCTINE SWPINTTUIN, DOUTS

						:
7	ol 224.01 SMFINT	SMFINT	(001+37) 45.06-X	45.06-X	1001439) 45.08-X	45.08-X
3	os 224.Uz NCSMPI	NC SWP 1	(CU1441) 45.10-X	45.10-X	(0014431 45.12-X	45.12-X
\$	0> 24-04-40	9	62	10.422 29		
UC7PL00m 224.06	224.06		UC7PL609 224.07	224.07		
UCTP-LUG9 224.67 20	224.67	2				
101	101 224.04 54	3,	\$	49 224-04		
UC7PLG16 224.14 25 UC7PLG2G 224.16	224.14	۵	UCTPLO12 224.11 UCTPLO23 224.17	224.11		
UCTPL023 224.17 10	224.17	91				

SECTION 10

I N D E X

(See also Section 6 in Volume I, Part 1 and Appendix B in Volume IV, Part 1)

PROGRAM/ SUBROUTINE/ FUNCTION	MODULE NUMBERS	DESCRIPTION & LISTING PAGE	FLOW CHART PAGE	CROSS REF. PAGE
A BORT A DDA A DDRND	207/239 See 235/236 See 237 See		9-81	9-218
A DRNDC ANTARY	413	Vol III	9-170	9-230
ANTINT		8-4	9-140	9-226
ANTPAT	504 See	ANTARY		
	216/217	4-2	9-98	9-220
ATOD	210/21/	8-8	9-159	9-229
AZGA IN	_	0 0		
BLOCK DATA	-	8-10	9-124	9-224
CDFNCL	404 Se	e CDIGFL		
CDIGFL	403	4-6	9-96	9-220
CFAR	459,460	4-10	9-66	9-216
CGEN	425	Vol III	9-182	9-231
CGENCW		e CGENSF		
CGENSF	453	Vol III	9-149	9-227
CLINT	302	6-2	9-198	9-234
CLUTTR	503	4-14	9-112	9-222
CONV	204	5-2	9-60	9-216
CONVMP		e CONV		
CUMDIS	208/209	6-11	9-152	9-228
CUM 2		e CUMDIS		
COM Z				
אין זמת	114/115	8-12	9-122	9-223
DBLKX	440/441	4-20	9-93	9-220
DCFAR	201	4-24	9-142	9-226
DFT		e DFT	-	
DFTFØ	_	e DFT		
DFTRF	461	4-30	9-101	9-221
DIGFIL		ee DIGFIL		
DIGFNC		4-34	9-107	9-222
DIGFSF	463 422/423	4-41	9-95	9-220
DIGTFL	·	ee CONV	, ,,	,
DIVA	_ ·	ee ATOD		
DTOA	,	se wion		
	220/228			

PROGRAM/ SUBROUT INE/ FUNCT ION	MODULE NUMBERS	DESCRIPTION & LISTING PAGE	FLOW CHART PAGE	CROSS REF. PAGE
ECM	512	4-45	9-104	9-221
ECMFL		DIGFIL		
ECMFSU	- See	DIGFSF	0.160	2 220
ELGA IN	•	8-8	9-160	9-229
ERGYCP	118	6-16	9-70	9-217
ERGYRE	116/117 See			
ERRMSG	- See	ABORT		
FGENMP		FGENXY	0.70	0.217
FGENXY	420	4-51	9-72	9-217
FILT	407/408	4-60	9-55	9-215
FWDET	416/417 See	HWDET		
HET	-	4-64	9-103	9-221
HLIM	438/439 See	HWDET		
HWDET	414/415	4-65	9-137	9-225
IBOOL	_	8-14	9-119	9-223
IFLD	-	8-15	9-123	9-224
IFT	- See	ZFFT		
IFWDET	447/448 See	HWDET		
IHLIM	442/443 See	HWDET		
IHWDET	445/446 See	HWDET		
INGTOR	409/410	4-70	9-97	9-220
IONOS	511	4-74	9-117	9-223
IPACK	-	8-16	9-118	9-223
ISQDET	449/450 See	HWDET		
LAMPCP	458	4-80	9-68	9-217
LAMPRE	456/457 See	LAMPCP		
MAIN 1	_	2-1	9-2	9-206
MAIN 2	-	2 - 2	9 - 34	9-210
MITIFLT	430/431	4-83	9-201	9-234
MTIIFT	- See	MTIFLT		
MTIINC	- See	MTIFLT		
MTINCL	432/433 Sce	MTIFLT		
NCSWPI	436/437 See	SWPINT		
NONLIN	401/402	4-91	9-135	9-225
OUTCUM	210/211 See	CUMDIS		
DACV	_	8-18	9-88	9-219
PACK PDF	212/213 See		, 00	,
		10-2		

PROGRAM/ SUBROUTINE/ FUNCTION	MODULE NUMBERS		DESCRIPTION & LISTING PAGE	FLOW CHART PAGE	CROSS REF. PAGE
PHDEC	508/509		4-94	9-78	9-218
PHENC	506/507		4-100	9-167	9-229
PLOTTR	307-310		6-18	9-90	9-219
PLTFMT	113		6-23	9-175	9-231
PTLIST	303-306		6-28	9-82	9-218
PXFRM	454		Vol III	9-147	9-227
RDIGFL	405		4-105	9-100	9-221
RECF	451		Vol III	9-145	9-227
RECFTF	452	See	RECF		
RNDA RY	214/215		4-109	9-150	9-227
RRAND	101/102		8-21	9-120	9-223
RSHFTS	231/232	See	SHIFT		
RSHIFT	229/230				
RTOPDB	103		6-35	9-156	9-228
RTOPM	110	See	RTOPDB		
RTOPM2	111	See	RTOPDB		
SCANNR	313		6-40	9-161	9-229
SDBLKX	-	See	DBLKX		
SHIFT	224/225		4-113	9-63	9-216
SHIFTS	226/227				
SPCAVG	312		vol III	9-165	9-229
SQDET	418/419		See HWDET		
SWPINT	434/435		4-118	9-204	9-234
TARGET	501		4-122	9-109	9-222
TGTNCL	502	See	TARGET	, 20,	,
TSARM	-		TSARY		
TSARY	426		Vol III	9-186	9-232
TSARY 1	427	See	TSARY	, 200	, 232
TSARY 2	-		TSARY		
TSRPAT	505	500	Vol III	9-178	9-231
			, , , , , , , , , , , , , , , , , , , ,	, _,,	, 232
WEITCP	222	See	WEITRE		
WE ITMP	223	See	WEITRE		
WE ITRE	221		4-129	9 - 57	9-215
WVGUID	510		4-135	9-116	9-223
XYTODB	104/108	See	RTOPDB		
XYTOM	105		RTOPDB		
XYTOM2	106	See	RTOPDB		

PROGRAM/ SUBROUTINE FUNCTION	MODULE NUMBERS	DESCRIPTION & LISTING PAGE	FLOW CHART PAGE	CROSS REF. PAGE
ZFFT ZIFFT	202 203 Se	5-7	9-125	9-224

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